Grades 5 & 6

Required Religion Books:

Grade 5 – Diethelm, Walter, O.S.B.- *St. Pius X: The Farm Boy Who Became Pope*
Grade 6 - C.S. Lewis- *The Lion, the Witch and the Wardrobe*

Required Literature Books:

Grade 5- Clements, Andrew- *Frindle*

Grade 6- Weeks, Sarah-*Pie*

Students, you must read the required literature book and be ready to discuss when we return to school. You will be given a comprehension test at the beginning of the year.

Choose one nonfiction book and one fiction book of your choice to read also. I will assign the project to work on when we return to school. You are encouraged to read more. The following reading list has many interesting options!

Grades 5 & 6 - Nonfiction

Albee, Sarah- *Accidental Archeologists: True Stories of Unexpected DIscoveries*

Aronson, Marc- *Trapped: How the World Rescued 33 Miners From 2,000 Feet Below the Chilean Desert*

Burleigh, Robert- *O Captain, My Captain*

Castaldo, Nancy- *Beastly Brains: Exploring How Animals Think, Talk and Feel*

Ganda, Martin- *I Will Always Write Back: How One Letter Changed Two Lives*

Grandin, Temple- *Calling All Minds*

Hernandez, Laurie- *I Got This: To Gold and Beyond*

Ignotofsky, Rachel- *Women in* ...series

Kean, Sam- *The Disappearing Spoon (*young adult adaptation)

Lambert, Joseph-*Annie Sullivan and The Trials of Helen Keller*

Rauch, George- *An Unlikely Warrior: A Jewish Soldier in Hitler's Army*

Schanzer, Rosalyn- *Witches: The Absolutely True Tale of Disaster in Salem*

Scientists in the Field *series- Various Authors*

Shackelton, Kate-*Survivors of the Holocaust: True Stories of Six Extraordinary Children*

Sidman, Joyce- *The Girl Who Drew Butterflies: How Maria Merian's Art Changed Science*

Sweet, Melissa- *Some Writer! The Story of E.B. White*

Thimmesh, Catherine- *Team Moon: How 400,000 People Landed Apollo 11 on the Moon*
Tougias, Michael J.- *A Storm Too Soon: A True Story of Disaster, Survival and an Incredible Rescue*

Tunnell, Michael- *Candy Bomber: The Story of the Berlin Airlift's "Chocolate Pilot"*

Woodson, Jacqueline- *Brown Girl Dreaming*

Grades 5 & 6 - Fiction

Alcott, Louisa May- *Little Women*

Barnhill, Kelly- *The Girl Who Drank the Moon*

Lauren Baratz-Logstead- *I Love You, Michael Collins*

Bertman, Jennifer Chambliss- *Book Scavenger* series

Birdsall, Jeanne- *The Penderwick* series

Brown, Peter- *The Wild Robot* series

Louise- *Harriet the Spy*

Gibbs, Stuart- *Fun Jungle, Moonbase Alpha* and *Spy School* series

Gidwitz, Adam- *Inquisitor's Tale*

Green, Tim-*The Big Game*

Gruener, Ruth- *Out of Hiding*

Hood, Susan- *Lifeboat*

Hunt, Lynda Mullaly- *Fish in a Tree*

Korman, Gordon- *What's His Face*

MacLachlan, Patricia- *The Truth of Me*

Martin, Ann- *Rain Reign*

Medina, Meg- *Merci Suarez Changes Gears*

Meloy, Colin- *Wildwood*

Minks, Margare*t- Payback on Poplar Lane*

Parker Rhodes, Jewell- *Ghost Boys*

Patterson, James and Alexander Kwame- *Becoming Muhammad Ali*

Pincus, Greg- *The Homework Strike*

Ponti, James- *Framed, Vanished* and/or *Trapped*

Reynolds, Jason- *Ghost* series

Woods, Brenda -The Unsung Hero of Birdsong, USA

Grade 6 Supply List

For classroom:

2 Packages, Filler Paper, Wide Rule, 100 sheets/pack
4 Boxes of Tissues
3 Packages of Disinfecting Wipes
4 Rolls of Paper Towel

For students:

1 Binder, 3 Ring, Heavy Duty, 1"
6 Book Covers, Jumbo, Assorted Colors
4 Composition Notebooks
6 Folders, 2 Pocket, Assorted Colors
6 Packages, Index Cards 3"x5", Ruled, 100/pack
1 Index Card File Box, Plastic 3"x5", Holds 250 Index Cards
1 Pencil Pouch, Fabric, 10"x6"
4 Dozen Dixon Ticonderoga #2 Pencils, Sharpened
6 Blue Ballpoint Pens, Non-clicking
1 Scissors 7"
1 Crayola 12 Count, Washable Markers, Wide Tip
1 Crayola 12 Count, Washable Markers, Fine Tip
1 Crayola 24 Count, Colored Pencils
1 Crayola 24/Box, Crayons
1 Package of 5 Highlighters
3 Packages of 12 Count, Elmer's Glue Sticks
1 Elmer's School Glue 4oz.
1 Westcott 12" Metal Edge Standard Wooden Ruler
1 Texas Instruments TI-503SV 8 Digit Pocket Calculator
1 Pair wired earbuds with standard 2.5mm plug for use with Chromebooks (kept at school)

<u>Other supplies needed</u>

1 Family Photograph
Bible - *St. Joseph N.C.V. New Testament* Vest Pocket Edition (new students only)
Youth Catechism of Catholic Church (new students only)

At home: <u>(NOT included in Staples pre-ordered kits)</u>

1 Package, Filler Paper, Wide Rule, 100 sheets/pack
1 Ruler
1 Protractor
Working printer with ink

Name: _____

MATHEMATICS

SUMMER

PRACTICE

PACKET

GRADE 6

Directions: *Please complete the attached worksheets over the summer and bring the packet to school on the first day.*

SHOW ALL YOUR WORK ***~ NO WORK ~ NO CREDIT*** *(if more space is needed for your work, attach an extra paper, clearly numbered with page and example number)*

DO NOT USE A CALCULATOR

Name _____ Date _____

Skills Update
online resource

Whole Numbers: Place Value, Compare, and Order

Algebra

Name the period of the underlined digits.

1. 234,837,925 _____
2. 835,927,002 _____
3. 420,310,964 _____
4. 667,026,514 _____

Write the place of the underlined digit. Then write its value.

5. 64,809,380 _____
6. 1,256,867 _____
7. 516,090,212 _____
8. 134,075,206 _____
9. 710,835 _____
10. 6,491,686 _____
11. 837,601,425 _____
12. 223,106,458 _____
13. 42,100,000 _____
14. 305,817,902 _____

Write in order from least to greatest.

15. 1407; 14,027; 140,270; 1704 _____
16. 62,809; 62,900; 62,890; 62,908 _____
17. 1,429,027; 1,692,065; 104,803; 2,863,246

_____

18. 26,329,248; 27,329; 26,330,248; 26,330

_____

19. 140,328; 104,328; 140,823; 140,238

_____

20. 2,348,954; 948,657; 1,498,238; 84,969

_____

Write in order from greatest to least.

21. 2024; 2025; 3025; 3024 _____
22. 77,077; 780,171; 178,071; 1,778,081

_____

23. 69,001,521; 6,901,521; 69,520,101; 9,650,125

_____

Name _____ Date _____

Skills Update
online resource

Round Whole Numbers

Round each to the nearest ten.

1. 85 _____	**2.** 54 _____	**3.** 685 _____	**4.** 541 _____
5. 4384 _____	**6.** 3992 _____	**7.** 2978 _____	**8.** 4122 _____
9. 26,364 _____	**10.** 85,555 _____	**11.** 68,756 _____	**12.** 53,107 _____
13. 595,833 _____	**14.** 728,259 _____	**15.** 187,375 _____	

Round each to the nearest hundred.

16. 114 _____	**17.** 157 _____	**18.** 6861 _____	**19.** 2325 _____
20. 14,387 _____	**21.** 10,153 _____	**22.** 44,413 _____	**23.** 39,109 _____
24. 523,684 _____	**25.** 157,253 _____	**26.** 828,935 _____	

Round each to the nearest thousand.

27. 1024 _____	**28.** 2438 _____	**29.** 1152 _____
30. 22,814 _____	**31.** 67,538 _____	**32.** 48,900 _____
33. 708,099 _____	**34.** 756,502 _____	**35.** 324,703 _____
36. 264,931 _____	**37.** 857,299 _____	**38.** 623,584 _____

Write the place to which each number was rounded.

39. 3044 to 3040 _____	**40.** 2917 to 3000 _____
41. 58,246 to 58,200 _____	**42.** 617,489 to 617,500 _____
43. 23,569 to 23,570 _____	**44.** 153,706 to 154,000 _____
45. 12,035 to 12,000 _____	**46.** 827,012 to 827,000 _____

Round each to the given place. Circle the letter of the correct answer.

47. 45,361 to the nearest thousand	**a.** 45,000	**b.** 45,300	**c.** 45,400
48. 9456 to the nearest hundred	**a.** 9500	**b.** 9460	**c.** 9400
49. 26,185 to the nearest ten	**a.** 26,180	**b.** 26,200	**c.** 26,190
50. 517,365 to the nearest hundred	**a.** 517,000	**b.** 517,300	**c.** 517,400
51. 828,294 to the nearest thousand	**a.** 829,000	**b.** 828,000	**c.** 828,300

Name _____ Date _____

Skills Update
online resource

Factors, Multiples, and Divisibility

List all the factors of each number.

1. 8 _____

2. 17 _____

3. 49 _____

4. 24 _____

5. 33 _____

6. 16 _____

7. 36 _____

8. 75 _____

9. 63 _____

10. 54 _____

11. 12 _____

12. 18 _____

13. 26 _____

14. 48 _____

15. 55 _____

16. 20 _____

17. 96 _____

18. 84 _____

19. 100 _____

20. 123 _____

List the first ten nonzero multiples of each number.

21. 2 _____

22. 3 _____

23. 1 _____

24. 6 _____

25. 11 _____

26. 9 _____

27. 10 _____

28. 12 _____

29. 21 _____

30. 30 _____

31. 40 _____

32. 50 _____

Which numbers are divisible by 2? by 5? by 10?

33. 37 _____ **34.** 24 _____ **35.** 17 _____ **36.** 39 _____ **37.** 66 _____

38. 125 _____ **39.** 262 _____ **40.** 480 _____ **41.** 932 _____ **42.** 521 _____

43. 45 _____ **44.** 80 _____ **45.** 64 _____ **46.** 27 _____ **47.** 35 _____

48. 660 _____ **49.** 524 _____ **50.** 735 _____ **51.** 909 _____ **52.** 876 _____

53. 12,000 _____ **54.** 20,110 _____ **55.** 45,186 _____ **56.** 29,338 _____

57. 8459 _____ **58.** 6950 _____ **59.** 3180 _____ **60.** 1793 _____

61. 39,001 _____ **62.** 43,000 _____ **63.** 64,128 _____ **64.** 87,900 _____

Name _____ Date _____

Skills Update
online resource

Decimals to Hundredths

Read each decimal. Then write the place and value of the underlined digit.

1. 0.7 _____
2. 6.24 _____
3. 38.91 _____
4. 9.05 _____
5. 18.32 _____
6. 24.53 _____
7. 3.08 _____
8. 54.64 _____
9. 732.4 _____
10. 867.65 _____
11. 30.08 _____
12. 500.26 _____
13. 609.59 _____
14. 258.1 _____
15. 0.75 _____
16. 60.07 _____

Write each decimal.

17. three tenths _____
18. sixty-one hundredths _____
19. nine hundredths _____
20. eight tenths _____
21. fifty-five and six tenths _____
22. nineteen and twelve hundredths _____
23. eight and seven hundredths _____
24. thirty-two and five tenths _____
25. eight hundred forty-seven and fifty-three hundredths _____
26. five hundred seventy-nine and two hundredths _____
27. nine hundred nine and one tenth _____

Write the word name for each decimal.

28. 0.6 _____
29. 0.12 _____
30. 0.2 _____
31. 0.48 _____
32. 0.09 _____
33. 1.3 _____
34. 56.7 _____
35. 83.31 _____
36. 128.04 _____
37. 407.3 _____
38. 200.26 _____
39. 705.05 _____
40. 630.17 _____

Name _____ Date _____

Skills Update
online resource

Add Whole Numbers and Decimals

Estimate by rounding. Then add.

1. 532 + 197	**2.** 908 + 46	**3.** 2384 + 4689	**4.** 37,561 + 26,082
5. 17,836 + 2,467	**6.** 27,268 + 14,243	**7.** 103,259 + 262,137	**8.** 73,942 + 2,009
9. 74,608 + 32,517	**10.** 849,182 + 617,007	**11.** 456,126 + 9,499	**12.** 87,654 + 585
13. 18.38 + 7.15	**14.** 83.7 + 4.34	**15.** 9.29 + 3.1	**16.** 51.8 + 16.5
17. $4.64 + 3.95	**18.** $57.06 + 8.19	**19.** $75.98 + 14.89	**20.** $25.15 + 61.38
21. 0.69 1.87 + 3.2	**22.** 8.48 0.3 + 6.27	**23.** 0.05 1.71 + 8.23	**24.** $10.99 1.46 + 5.19

Align and estimate by rounding. Then add.

25. 467 + 895 = _____

26. 126 + 79 = _____

27. 1699 + 5732 = _____

28. 9081 + 61,482 = _____

29. 84,207 + 3,659 = _____

30. 176,505 + 32,899 = _____

31. 64.98 + 8.32 = _____

32. 0.6 + 53.1 + 0.11 = _____

33. $38.25 + $41.93 + $7.08 = _____

34. $6.92 + $18.46 + $24.48 = _____

Name _____ Date _____

Skills Update
online resource

Subtract Whole Numbers

Estimate by rounding. Then subtract.

1. 138 − 79	**2.** 856 − 28	**3.** 632 − 179	**4.** 1265 − 484	**5.** 800 − 240
6. 7587 − 3612	**7.** 453 − 75	**8.** 527 − 248	**9.** 4524 − 395	**10.** 2675 − 320
11. 9812 − 7464	**12.** 8751 − 4392	**13.** 32,345 − 28,888	**14.** 38,416 − 6,518	**15.** 956,231 − 629,555
16. 0.73 − 0.16	**17.** 0.9 − 0.2	**18.** 0.5 − 0.06	**19.** 0.84 − 0.2	**20.** 0.45 − 0.41
21. 15.79 − 10.63	**22.** 29.5 − 4.7	**23.** 68.1 − 17.38	**24.** 59.7 − 8.04	**25.** 81.17 − 9.5
26. $90.57 − 4.39	**27.** $5.16 − 0.99	**28.** $28.24 − 26.09	**29.** $17.49 − 8.57	**30.** $77.66 − 25.09

Align and estimate by rounding. Then subtract.

31. 2445 − 1986 = _____

32. 8458 − 2879 = _____

33. 24,145 − 16,958 = _____

34. 746,231 − 527,854 = _____

35. 4.15 − 0.7 = _____

36. 9.5 − 6.86 = _____

37. 37.6 − 0.08 = _____

38. 93.8 − 5.81 = _____

Name _____ Date _____

Skills Update
online resource

Inverse Operations

Algebra

Find the missing number using inverse operations.

1. $7 + a = 11$

2. $16 + n = 57$

3. $73 + g = 112$

4. $b + 327 = 509$

5. $\$83.97 + y = \$95.00$

6. $h + \$739 = \$6892$

7. $r - 37 = 35$

8. $32 - j = 21$

9. $t - \$41.75 = \$32.00$

10. $52 - t = 38$

11. $329 - s = 298$

12. $\$93{,}250 - k = \$52{,}500$

13. $86 \times r = 774$

14. $y \times 27 = 1215$

15. $168 \times s = 672$

16. $75b = \$225$

17. $42t = 294$

18. $17c = \$680$

19. $a \div 6 = 8$

20. $p \div 7 = 56$

21. $v \div 9 = 75$

22. $d \div 3 = \$499$

23. $n \div 5 = 135$

24. $y \div 80 = 254$

Name_____ Date_____

Skills Update
online resource

Properties of Addition and Multiplication

Name the property of addition or multiplication used.

1. $67 + 36 + 21 = 21 + 67 + 36$

2. $(17 \times 5) \times 4 = 17 \times (5 \times 4)$

3. $(48 + 9) + 6 = 48 + (9 + 6)$

4. $18 + 0 = 18$

5. $82 \times 0 = 0$

6. $73 \times 1 = 73$

7. $(28 + 36) + 5 = 28 + (36 + 5)$

8. $59 + 78 = 78 + 59$

9. $6 \times (14 \times 23) = (6 \times 14) \times 23$

10. $1 \times 96 = 96$

11. $32 \times 17 = 17 \times 32$

12. $32 + 17 = 17 + 32$

13. $0 \times 46 = 0$

14. $0 + 74 = 74$

Match the correct property of addition or multiplication with each exercise.

15. $83 + 11 + 92 = 11 + 92 + 83$

16. $68 \times (17 \times 23) = (68 \times 17) \times 23$

17. $11{,}329 \times 1 = 11{,}329$

18. $86 \times 21 \times 54 = 21 \times 54 \times 86$

a. Associative Property of Addition

b. Associative Property of Multiplication

c. Commutative Property of Addition

d. Commutative Property of Multiplication

e. Identity Property of Addition

f. Identity Property of Multiplication

g. Zero Property of Multiplication

Name _____ Date _____

Skills Update
online resource

Multiply by 1- and 2-Digit Numbers

Estimate by rounding. Then find the product.

1. 18 × 7	**2.** 52 × 5	**3.** 93 × 8	**4.** 647 × 8	**5.** 237 × 9
6. 80 × 5	**7.** 75 × 6	**8.** $3.99 × 3	**9.** $2.07 × 8	**10.** $4.09 × 7
11. 729 × 6	**12.** 324 × 4	**13.** 778 × 5	**14.** 456 × 4	**15.** 479 × 3
16. 276 × 5	**17.** 532 × 8	**18.** 124 × 7	**19.** 896 × 9	**20.** $1.42 × 2
21. 48 × 27	**22.** 79 × 84	**23.** $.95 × 77	**24.** $.47 × 39	**25.** $.75 × 63
26. 24 × 56	**27.** 65 × 18	**28.** 34 × 48	**29.** $.56 × 92	**30.** $.16 × 88
31. 352 × 87	**32.** 914 × 62	**33.** 725 × 46	**34.** $8.49 × 63	**35.** $5.58 × 39

36. $9 \times 193 =$ _____ **37.** $6 \times 819 =$ _____ **38.** $24 \times 347 =$ _____

39. $3 \times \$.84 =$ _____ **40.** $8 \times \$2.55 =$ _____ **41.** $15 \times \$7.29 =$ _____

42. $15 \times 24 =$ _____ **43.** $92 \times 83 =$ _____ **44.** $27 \times \$.88 =$ _____

Name _____ Date _____

Skills Update
online resource

Trial Quotients

In each exercise, write whether the given quotient digit is *correct* or *too large*.

1. $55\overline{)394}$ quotient digit: 7 _____

2. $76\overline{)342}$ quotient digit: 5 _____

3. $27\overline{)107}$ quotient digit: 4 _____

4. $56\overline{)145}$ quotient digit: 2 _____

5. $18\overline{)129}$ quotient digit: 8 _____

6. $39\overline{)331}$ quotient digit: 8 _____

7. $19\overline{)159}$ quotient digit: 9 _____

8. $42\overline{)125}$ quotient digit: 3 _____

9. $51\overline{)416}$ quotient digit: 8 _____

10. $32\overline{)128}$ quotient digit: 5 _____

11. $26\overline{)132}$ quotient digit: 5 _____

12. $33\overline{)265}$ quotient digit: 8 _____

Estimate to find the missing digit in the quotient. Complete the division.

13.
$$\begin{array}{r} 5? \\ 38\overline{)2275} \\ -190 \\ \hline 375 \end{array}$$

14.
$$\begin{array}{r} 8? \\ 81\overline{)6943} \\ -648 \\ \hline 463 \end{array}$$

15.
$$\begin{array}{r} 6? \\ 26\overline{)1816} \\ -156 \\ \hline 256 \end{array}$$

16.
$$\begin{array}{r} 7? \\ 68\overline{)5132} \\ -476 \\ \hline 372 \end{array}$$

17.
$$\begin{array}{r} 41? \\ 19\overline{)7840} \\ -76 \\ \hline 24 \\ -19 \\ \hline 50 \end{array}$$

18.
$$\begin{array}{r} 53? \\ 11\overline{)5912} \\ -55 \\ \hline 41 \\ -33 \\ \hline 82 \end{array}$$

19.
$$\begin{array}{r} 58? \\ 76\overline{)44{,}372} \\ -380 \\ \hline 637 \\ -608 \\ \hline 292 \end{array}$$

20.
$$\begin{array}{r} 32? \\ 87\overline{)28{,}436} \\ -261 \\ \hline 233 \\ -174 \\ \hline 596 \end{array}$$

PROBLEM SOLVING

21. Donovan, Maria, and Rob are dividing 2813 by 79. Donovan says the first digit of the quotient is 2. Maria says it is 3, and Rob says it is 4. Who is correct? _____

Name _____ Date _____

Skills Update
online resource

Divide Whole Numbers

Estimate by using compatible numbers. Then find the quotient.

1. $6\overline{)71}$ **2.** $4\overline{)69}$ **3.** $7\overline{)437}$ **4.** $8\overline{)\$6.48}$

5. $45\overline{)785}$ **6.** $33\overline{)596}$ **7.** $24\overline{)658}$ **8.** $52\overline{)\$8.84}$

9. $18\overline{)2453}$ **10.** $67\overline{)2165}$ **11.** $98\overline{)9988}$ **12.** $76\overline{)\$93.48}$

13. $87\overline{)3175}$ **14.** $29\overline{)8693}$ **15.** $41\overline{)3462}$ **16.** $16\overline{)\$15.20}$

PROBLEM SOLVING

17. A school paid $62.25 for 25 identical paintbrushes. What did each paintbrush cost? _____

18. Each tour bus carries 35 passengers. If 1470 people sign up for a local tour, how many full buses will there be? _____

Name _____ Date _____

Skills Update
online resource

Add and Subtract Fractions: Like Denominators

Add or subtract the fractions. Write each answer in simplest form.

1. $\frac{2}{7} + \frac{3}{7}$
2. $\frac{4}{15} + \frac{6}{15}$
3. $\frac{2}{8} + \frac{3}{8}$
4. $\frac{3}{10} + \frac{2}{10}$
5. $\frac{1}{3} + \frac{1}{3}$
6. $\frac{6}{12} + \frac{2}{12}$
7. $\frac{5}{8} + \frac{5}{8}$
8. $\frac{3}{6} + \frac{4}{6}$
9. $\frac{1}{2} + \frac{1}{2}$
10. $\frac{2}{5} + \frac{2}{5}$
11. $\frac{4}{10} + \frac{5}{10}$
12. $\frac{1}{4} + \frac{2}{4}$
13. $\frac{5}{12} - \frac{2}{12}$
14. $\frac{8}{10} - \frac{1}{10}$
15. $\frac{4}{5} - \frac{2}{5}$
16. $\frac{5}{6} - \frac{1}{6}$
17. $\frac{6}{8} - \frac{4}{8}$
18. $\frac{2}{3} - \frac{1}{3}$
19. $\frac{3}{4} - \frac{1}{4}$
20. $\frac{6}{7} - \frac{5}{7}$
21. $\frac{7}{9} - \frac{4}{9}$
22. $\frac{9}{10} - \frac{3}{10}$
23. $\frac{2}{3} - \frac{2}{3}$
24. $\frac{11}{15} - \frac{3}{15}$

25. $\frac{4}{8} + \frac{6}{8} =$ _____
26. $\frac{3}{6} + \frac{5}{6} =$ _____
27. $\frac{2}{3} + \frac{1}{3} =$ _____
28. $\frac{8}{15} + \frac{10}{15} =$ _____
29. $\frac{11}{20} + \frac{13}{20} =$ _____
30. $\frac{7}{10} + \frac{9}{10} =$ _____
31. $\frac{4}{5} + \frac{1}{5} =$ _____
32. $\frac{9}{16} + \frac{12}{16} =$ _____
33. $\frac{5}{25} + \frac{10}{25} =$ _____
34. $\frac{14}{15} - \frac{9}{15} =$ _____
35. $\frac{9}{10} - \frac{7}{10} =$ _____
36. $\frac{2}{4} - \frac{1}{4} =$ _____
37. $\frac{8}{10} - \frac{4}{10} =$ _____
38. $\frac{5}{9} - \frac{3}{9} =$ _____
39. $\frac{10}{12} - \frac{8}{12} =$ _____
40. $\frac{3}{5} - \frac{2}{5} =$ _____
41. $\frac{5}{6} - \frac{2}{6} =$ _____
42. $\frac{7}{8} - \frac{7}{8} =$ _____

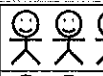
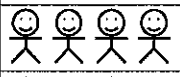
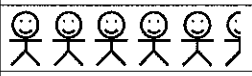
Name _____ Date _____

Skills Update
online resource

Make Pictographs

Solve. Use the pictograph at the right.

1. What does each  represent? _____
2. How many symbols were used for swimming? for jogging? _____
3. How many more people chose jogging than chose swimming? _____
4. Which sport is the favorite of between 20 and 30 people? _____
5. How many people in all does the pictograph represent? _____
6. Describe what this pictograph would look like if each symbol stood for 1 person or for 5 people. _____

Favorite Outdoor Sports	
swimming	
jogging	
bicycling	
tennis	
Key: Each  = 10 people.	

Use the table to complete the pictograph. Then answer questions 7–11 about the graph.

National Park	Area (acres)
Arches	73,379
Biscayne	173,039
Channel Islands	249,354
Grand Teton	310,521
Mesa Verde	52,085
Zion	146,598

Areas of National Parks	
Arches	
Biscayne	
Channel Islands	
Grand Teton	
Mesa Verde	
Zion	
Key: Each  = 50,000 acres.	

7. What is the title of the pictograph? _____
8. What does  represent? _____
9. Which park is the largest? _____
10. About how many acres less is Zion than Biscayne? _____
11. About how many acres more is Biscayne than Arches? _____

Make a pictograph for the set of data on a separate sheet of paper.

12.

Mountain	Height (feet)
Ararat	16,804
Everest	29,028
Kanjiroba	22,580
Lhotse	27,560
Makalu 11	25,120
Minya Konka	24,900

Name _____ Date _____

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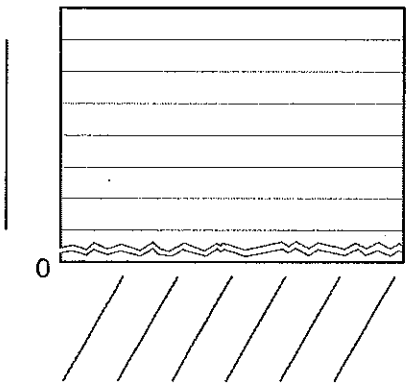
Make Bar Graphs

Make a vertical bar graph to display the data in the table.

1.

Zoological Parks	
City	**Acreage**
Tucson, AZ	30
Dallas, TX	70
Denver, CO	80
Houston, TX	55
Los Angeles, CA	80
Chicago, IL	35



Solve. Use the graph you made to answer each question.

2. What interval did you use to make the graph? Why?

_____

3. Which two cities have bars of the same length? _____

4. How many fewer acres does the zoological park in Chicago have than the zoological park in Dallas? _____

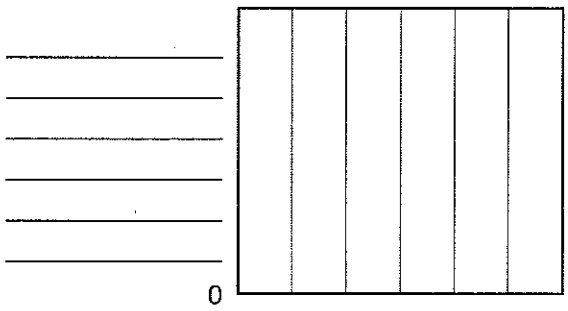
5. What information can be found along the horizontal axis? the vertical axis? _____

6. From this data, how many cities have zoological parks with more than 50 acres? Which cities are they? _____

Make a horizontal bar graph to display the data in the table below.

7.

Length of Town Roads	
Road	**Length in Miles**
Main	22
East	14
North	10
Wildcat	19
Eagle Pass	15
Long Ridge	20



Name _____ Date _____

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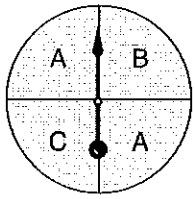
Equally/Not Equally Likely Outcomes

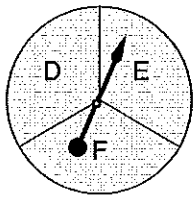
For each experiment list the possible outcomes. Then write whether the outcomes are *equally likely* or *not equally likely*.

1.



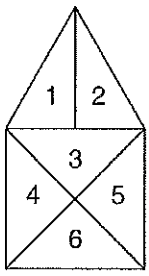
_____
_____
_____

2.



_____
_____
_____

3. Toss a marker on the figure.

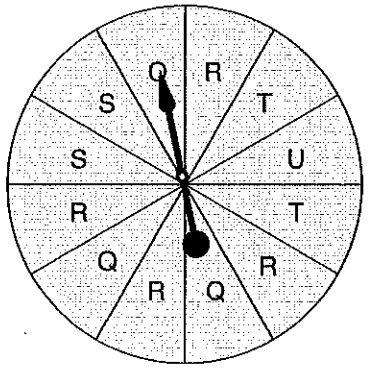


_____
_____
_____
_____

4. A bowl contains 8 marbles: 2 white, 2 red, 2 orange, and 2 black. Choose a marble without looking.

_____
_____
_____
_____

Use the spinner on the right to find the probability of the spinner landing on:



5. *T* _____

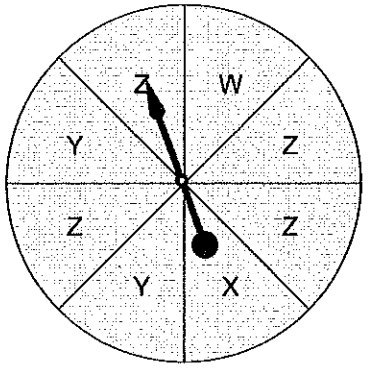
6. *Q* _____

7. *S* _____

8. *U* _____

9. *R* _____

Use the spinner on the right to find the probability of the spinner landing on:



10. *Y* _____

11. *X* _____

12. *W* _____

13. *Z* _____

Name _____ Date _____

Skills Update
online resource

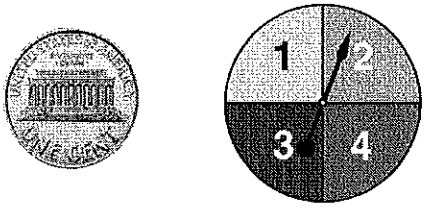
List Outcomes

Make a list of all possible outcomes for each experiment.
Then write the total number of outcomes.

1. Toss two coins.

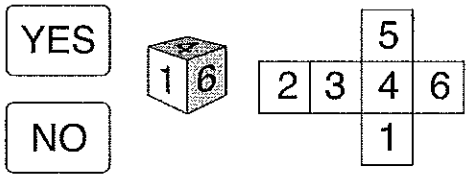
_____
_____
_____

2. Toss a coin and spin the spinner.



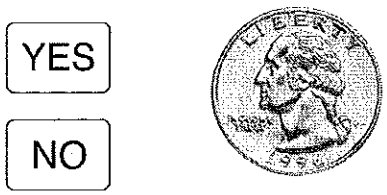
_____
_____
_____

3. Pick a card and toss a 1–6 number cube.



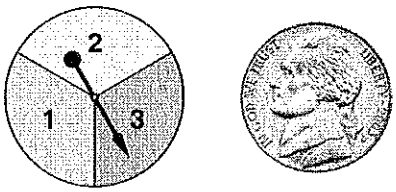
_____
_____
_____

4. Toss a coin and pick a card without looking.



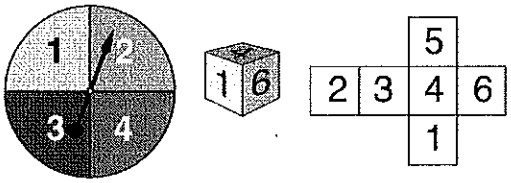
_____
_____
_____

5. Spin the spinner and toss a coin. without looking.



_____
_____
_____

6. Spin the spinner and toss a 1–6 number cube.



_____
_____
_____
_____
_____

Name _____ Date _____

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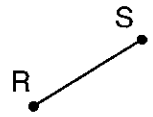
online resource

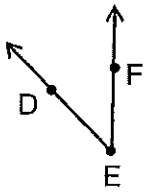
Geometric Figures

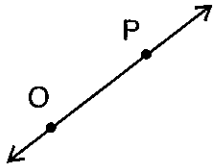
Identify each figure. Then name it using symbols.

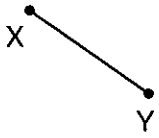
1. 

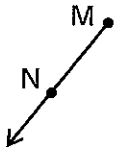
2. 

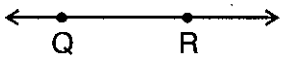
3. 

4. 

5. 

6. 

7. 

8. 

Draw each.

9. point *P*

10. $\overline{ST}$

11. $\overrightarrow{EF}$

12. $\angle XYZ$

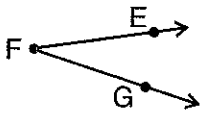
13. plane *PQR*

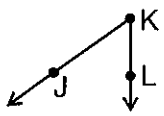
14. $\overleftrightarrow{MN}$

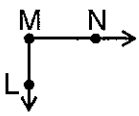
15. $\overline{AB}$

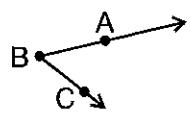
16. $\overrightarrow{ZA}$

Name each angle three ways.

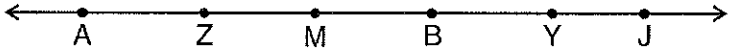
17. 

18. 

19. 

20. 

Write as many names as you can for the line below.
(Hint: A line is named by using any two of its points in any order.)

21. 

Name _____ Date _____

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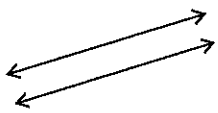
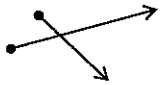
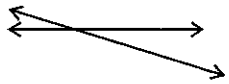
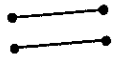
Lines: Intersecting and Parallel

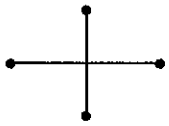
Identify each pair of geometric figures as *intersecting* or *parallel*.

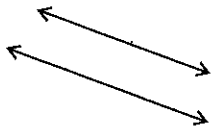
1. 

2. 

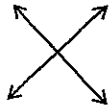
3. 

4. 

5. 

6. 

7. 

8. 

Draw each.

9. two parallel lines

10. two intersecting rays

11. $\overrightarrow{AB} \parallel \overrightarrow{CD}$

12. $\overline{XY} \parallel \overline{RS}$

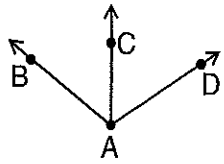
13. $\overline{GH}$ and $\overline{JK}$ that do not intersect

14. $\overline{PQ}$ intersecting $\overrightarrow{RS}$ at point T

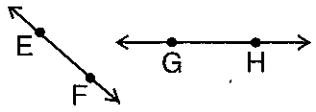
15. 3 lines intersecting at point X

PROBLEM SOLVING

16. Look at the figure at the right. Are $\overrightarrow{AB}$, $\overrightarrow{AC}$, and $\overrightarrow{AD}$ *intersecting*, *parallel*, or *neither*? Explain your answer.



17. Use the figure at the right. Are $\overleftrightarrow{EF}$ and $\overleftrightarrow{GH}$ *intersecting*, *parallel*, or *neither*? Explain your answer.



Name _____ Date _____

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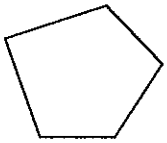
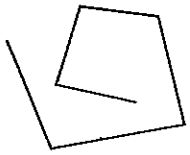
Polygons

Decide if each figure is a polygon. Write *Yes* or *No*. Then name the polygon.

1. 

_____

_____

2. 

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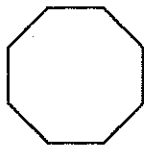
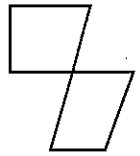
3. 

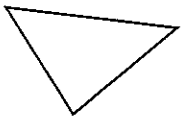
_____

_____

4. 

_____

_____

5. 

_____

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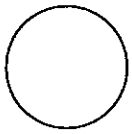
6. 

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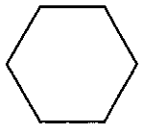
7. 

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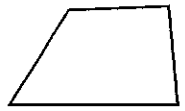
8. 

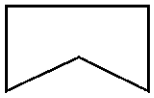
_____

_____

9. 

_____

_____

10. 

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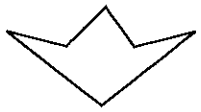
11. 

_____

_____

12. 

_____

_____

Write *True* or *False* for each statement.

13. A vertex of a polygon is a point where any two of its sides meet. _____

14. An octagon has 4 sides and 4 vertices. _____

15. Any side of a polygon is a line segment. _____

16. The number of sides of a polygon is equal to the number of its vertices. _____

17. Some polygons have a greater number of angles than sides. _____

PROBLEM SOLVING

18. A polygon has 3 sides, 3 angles, and 3 vertices. What kind of polygon is it? _____

19. A polygon has 5 angles and 5 vertices. How many sides does it have? What kind of polygon is it? _____

20. A polygon has 8 vertices. How many angles does it have? how many sides? What kind of polygon is it? _____

Name _____ Date _____

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Metric Units of Length

Use *mm, cm, dm, m,* or *km* to complete each sentence.

1. The height of a mug is about 1 _____ .
2. The width of a computer keyboard is about 45 _____ .
3. The length of a wallet-size photo is about 75 _____ .
4. One long race in the Olympics is a distance of 10,000 _____ .
5. The distance between Boston, MA and New York, NY is about 160 _____ .
6. The length of a jumbo paper clip is about 45 _____ .
7. The diameter of a dinner plate is about 25 _____ .
8. The length of a standard baseball bat is about 1 _____ .
9. The length of a standard sheet of paper is about 3 _____ .
10. The width of a room-size carpet is about 3 _____ .

Write *mm, cm, dm, m,* or *km* for the unit you would use to measure each.

11. height of a doorway _____
12. length of an ant _____
13. width of a book _____
14. length of a soccer field _____
15. distance to Europe _____
16. height of a kitten _____
17. thickness of a penny _____
18. width of a window _____

Circle the letter of the best estimate.

19. width of a piece of tape	**a.** 20 dm	**b.** 20 cm	**c.** 20 mm
20. height of a wall in a room	**a.** 3 km	**b.** 3 dm	**c.** 3 m
21. length of a honeybee	**a.** 21 mm	**b.** 21 cm	**c.** 21 dm
22. height of a bicycle	**a.** 7 cm	**b.** 7 dm	**c.** 7 m

PROBLEM SOLVING

23. Alonzo is putting a fence around his garden. Should he buy 10 dm, 10m, or 10 km of fencing? _____

24. Duong needs to tie a ribbon around her waist to complete her costume. Should she use 70 mm, 70 cm, or 70 dm of ribbon? _____

Name _____ Date _____

Skills Update
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Metric Units of Capacity and Mass

Which metric unit of capacity is better to measure each? Write *mL* or *L*.

1. sink _____ **2.** teaspoon _____ **3.** oil tank _____

4. cup _____ **5.** bucket _____ **6.** wading pool _____

Which metric unit of mass is better to measure each? Write *g* or *kg*.

7. television _____ **8.** feather _____ **9.** apple _____

10. human being _____ **11.** scissors _____ **12.** meteor _____

Multiply or divide to rename each unit.

13. 17 000 mL = _____ L **14.** 10 kg = _____ g **15.** 6 L = _____ mL

16. 8000 g = _____ kg **17.** 3000 mL = _____ L **18.** 25 kg = _____ g

19. 13 L = _____ mL **20.** 40 000 g = _____ kg **21.** 10 000 mL = _____ L

22. 2 kg = _____ g **23.** 5 L = _____ mL **24.** 33 000 g = _____ kg

25. 57 000 mL = _____ L **26.** 9 kg = _____ g **27.** 41 L = _____ mL

28. 50 000 g = _____ kg **29.** 75 000 mL = _____ L **30.** 90 kg = _____ g

PROBLEM SOLVING

31. A beaker in the science lab holds 2000 mL of distilled water. How many liters of water does it hold? _____

32. A rock brought back from the moon has a mass of 8 kg. What is its mass in grams? _____

33. A cafeteria chef uses 6 L of chicken broth to make chicken stew. How many milliliters of chicken broth does he use? _____

34. The chef puts 2000 g of cooked chicken into his stew. How many kilograms of chicken does he use? _____

35. During the first lunch period, students drink 13 000 mL of milk. How many liters of milk do they drink? _____

36. If the students in the cafeteria eat 10 000 g of carrots, how many kilograms of carrots do they eat? _____

Name _____ Date _____

Skills Update
online resource

Customary Units of Length

Circle the letter of the most reasonable estimate.

1.	width of a football field	**a.** 55 ft	**b.** 55 yd	**c.** 55 mi
2.	length of a dollar bill	**a.** 6 in.	**b.** 6 ft	**c.** 6 yd
3.	distance from home plate to first base	**a.** 90 in.	**b.** 90 ft	**c.** 90 yd
4.	length of a foot race	**a.** 220 in.	**b.** 220 mi	**c.** 220 yd
5.	height of a window	**a.** 48 ft	**b.** 48 in.	**c.** 48 yd
6.	distance from Chicago, IL to Boston, MA	**a.** 963 ft	**b.** 963 yd	**c.** 963 mi

Write *in., ft, yd,* or *mi* for the unit you would use to measure each.

7. width of a tablecloth _____
8. length of a room _____
9. height of a person _____
10. length of a car _____
11. width of a photograph _____
12. height of a mountain _____
13. thickness of a book _____
14. distance to Mars _____

Multiply or divide to rename each unit.

15. 6 ft = _____ in.
16. 108 in. = _____ yd
17. 3 mi = _____ ft
18. 36 ft = _____ yd
19. 10 yd = _____ ft
20. 144 in. = _____ ft
21. 7040 yd = _____ mi
22. 15 ft = _____ in.
23. 360 in. = _____ yd
24. 8 yd = _____ ft
25. 10 560 ft = _____ mi
26. 240 in. = _____ ft
27. 252 in. = _____ yd
28. 20 yd = _____ in.
29. $8\frac{1}{2}$ ft = _____ in.

PROBLEM SOLVING

30. Jason's sister is exactly 5 ft tall. How many inches tall is she? _____

31. A straight road is 5 mi long. How many yards long is it? how many feet long? _____

32. A bed sheet is 108 in. long. How many feet long is it? _____

33. Tahn rode his bicycle 10,560 yd. How many miles did he ride? _____

34. A corridor in the library is 9 yd long. How many feet long is it? how many inches? _____

Name _____ Date _____

Skills Update
online resource

Customary Units of Capacity and Weight

Circle the letter of the most reasonable estimate.

1. capacity of a large glass	**a.** 1 fl oz	**b.** 1 c	**c.** 1 pt
2. weight of a newborn baby	**a.** 7 T	**b.** 7 oz	**c.** 7 lb
3. capacity of a bucket	**a.** 5 fl oz	**b.** 5 pt	**c.** 5 gal
4. capacity of a bottle of juice	**a.** 28 c	**b.** 28 pt	**c.** 28 fl oz
5. capacity of a swimming pool	**a.** 16,500 gal	**b.** 16,500 qt	**c.** 16,500 c
6. weight of a math book	**a.** 2 oz	**b.** 2 lb	**c.** 2 T

Write *fl oz, c, pt, qt,* or *gal* for the unit you would use to measure the capacity of each.

7. tablespoon _____ **8.** car gasoline tank _____ **9.** bowl of soup _____

10. large saucepot _____ **11.** aquarium _____ **12.** juice glass _____

Write *oz, lb,* or *T* for the unit you would use to measure the weight of each.

13. dog _____ **14.** airplane _____ **15.** human being _____

16. crayon _____ **17.** computer _____ **18.** can of tuna fish _____

19. elephant _____ **20.** chair _____ **21.** banana _____

Multiply or divide to rename each unit.

22. 8 qt = _____ gal **23.** 5 lb = _____ oz **24.** 6 pt = _____ c

25. 5 T = _____ lb **26.** 88 fl oz = _____ c **27.** 80 oz = _____ lb

28. 16 c = _____ qt **29.** 8,000 lb = _____ T **30.** 3 gal = _____ pt

31. $2\frac{1}{2}$ lb = _____ oz **32.** 5 c = _____ fl oz **33.** 10 qt = _____ c

PROBLEM SOLVING

34. Ramsey bought 3 lb of peaches. If each peach weighs 6 oz, how many peaches did he buy? _____

35. Kate's punch bowl holds $3\frac{1}{2}$ gal of liquid. How many quarts of liquid does it hold? _____

36. Ms. Gold bought 400 oz of potatoes. How many pounds of potatoes did she buy? _____

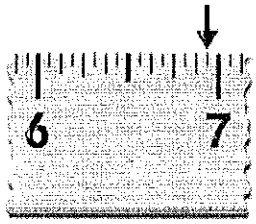
37. A restaurant ordered 8 gal of milk. The distributor delivered 32 qt of milk. Did the restaurant get what it ordered? _____

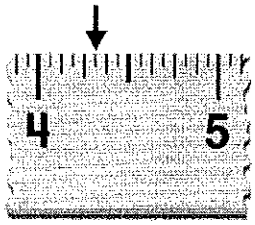
Name _____ Date _____

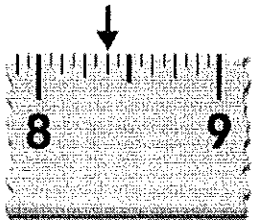
Skills Update
online resource

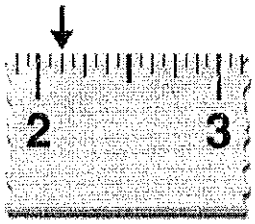
Read an Inch Ruler

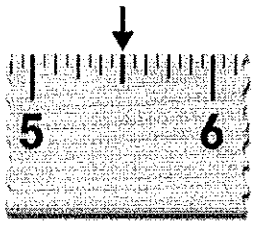
Read each length and record it in lowest terms.
Then give the length in as many ways as you can.

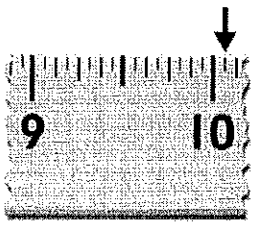
1. 

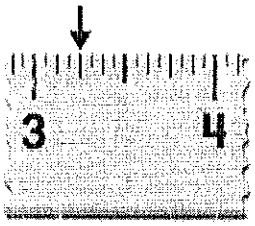
2. 

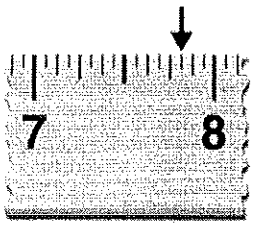
3. 

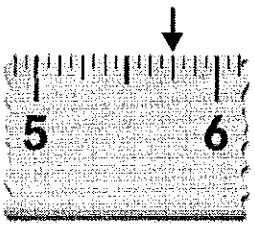
4. 

5. 

6. 

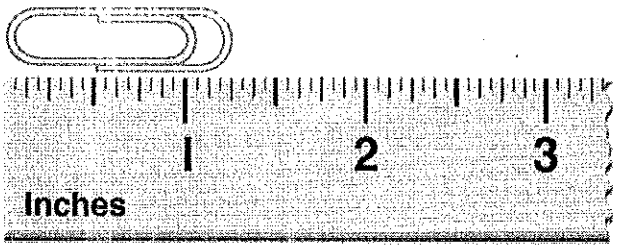
7. 

8. 

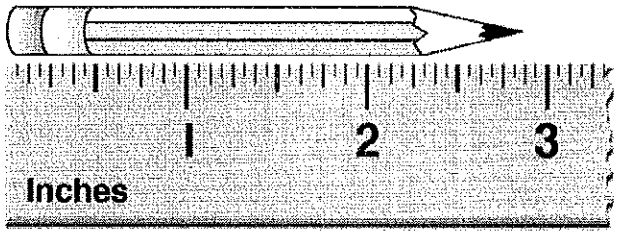
9. 

Measure each item and write the length in lowest terms.

10. _____



11. _____



Use with student text page 24.

Name _____ Date _____

Skills Update
online resource

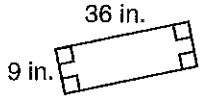
Perimeter and Area of Rectangles

Find the perimeter of each rectangle. Use the perimeter formula.

1. 25 cm, 12 cm

_____

2. 36 in., 9 in.



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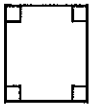
3. 13 ft, 15 ft

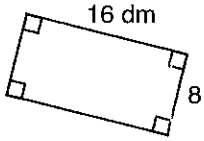


_____

4. 48 m, 24 m

_____

5. 16 dm, 8 dm



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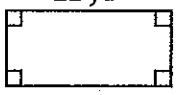
6. 22 yd, 10 yd



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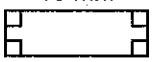
7. 19 mm, 6 mm



_____

8. 30 in., 20 in.

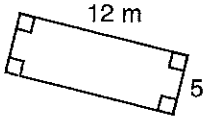
_____

Find the area of each rectangle. Use the area formula.

9. 39 in., 26 in.

_____

10. 12 m, 5 m



_____

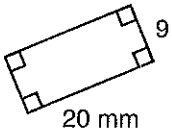
11. 20 dm, 7 dm

_____

12. 120 ft, 40 ft

_____

13. 9 mm, 20 mm



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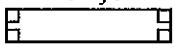
14. 62 yd, 12 yd



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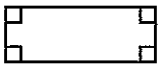
15. 22 cm, 8 cm



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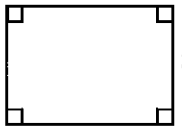
16. 38 km, 27 km



_____

PROBLEM SOLVING

17. The floor of Willy's living room is a rectangle that is 17 ft long and 11 ft wide. What is the area of the floor? the perimeter? _____

18. What is the area of the rectangle in exercise 3? the perimeter of the rectangle in exercise 14? _____

19. Tanya mounted a photo that was 4 in. wide and 6 in. long on a sheet of paper. There is 1 inch of the paper showing all around the photo. What is the perimeter of the sheet of paper? _____

20. Each of three rectangles has an area of 24 sq in. Do they have to have the same perimeter? Explain.

_____