Activities

Fourth Edition

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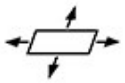
Greenville, South Carolina

Points, Lines & Planes

Name _____

Identify each figure.

line	line segment	plane	point

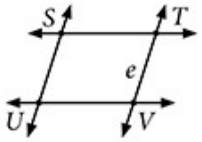
1.  _____

2. _____

3. _____

4. _____

Complete the statement. Use symbols to name the part of plane *e*.



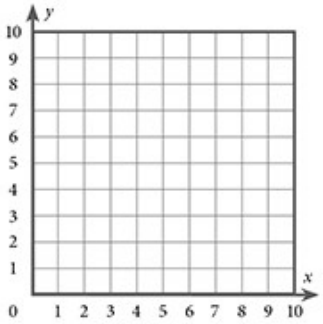
5. A _____ is a flat surface that goes endlessly in all directions. _____

6. A _____ is a part of a line; it has two endpoints. _____

7. A _____ is a straight path of points that goes endlessly in both directions. _____

8. A _____ is a location on a plane. _____

Plot and label the points on the graph. Answer the question.



9. *A* (3, 8) *B* (5, 7)
   C (7, 6) *D* (9, 5)

10. Draw a line through points *A*, *B*, *C*, and *D*.

11. What is the difference between a line and a line segment?

_____

_____

_____

Name a real-life item that resembles the geometric figure.

12. line _____

13. line segment _____

14. point _____

15. plane _____

Draw and label the figure.

16. line *AB*

17. line segment *XY*

18. plane *r*

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Circle *prime* or *composite*.

1. 38 prime composite
2. 57 prime composite
3. 61 prime composite
4. 32 prime composite
5. 29 prime composite
6. 39 prime composite

Solve. Label your answer.

Greenfield Basketball Card Collector's Club has 24 members. Each member has at least one full collection album. Each album holds 20 pages with 12 cards per page.

7. How many cards does each album hold?

8. If each club member has 1 full album, how many pages of cards does the club have in total?

9. What is the smallest number of cards the club owns?

Circle all multiples of the number.

10.	4	8	10	12	14	16	18	20	22	24
11.	5	10	12	15	18	20	25	35	38	40
12.	9	10	18	27	35	40	45	50	54	60

Solve. Label your answer.

13. Rachel's class has 20 students. Each student has 11 textbooks. How many textbooks does her class have?

14. Mrs. Carruthers teaches Spanish to 8 elementary grades. Each grade has 4 classrooms. Each classroom has 23 students. Use the Distributive Property to find out how many students she teaches.

$8 \times (____ \times ____) =$

$8 \times (____ \times 20) + (____ \times 3) =$

$8 \times (____ + ____) =$

$8 \times ____ =$

_____

Solve.

15. $18 \div 6 =$ _____
16. $6\overline{)72}$
17. _____ $\div 6 = 8$
18. _____ $\div 5 = 6$
19. $6 \times 0 \times 6 =$ _____
20. $54 \div 6 =$ _____
21. $\frac{12}{6} =$ _____
22. $6 \times 6 \times 6 =$ _____
23. $(2 \times 3) \cdot 6 =$ _____

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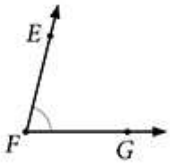
Rays & Angles

Name _____

Name the part of the figure.



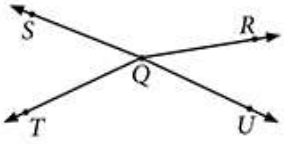
1. Name the vertex. _____
2. Name the two rays. _____
3. Name the angle. _____

Draw an angle. Label the angle ∠ *ABC*.

4.

Use the figure to name the rays.

5.



_____
_____
_____
_____

What is the point common to all rays? _____

Label the angle *acute*, *right*, *obtuse*, or *straight*.

6.

_____

7.

_____

8.

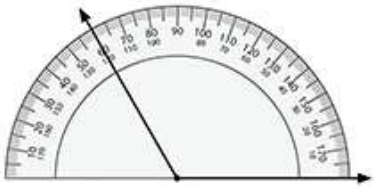
_____

9.

_____

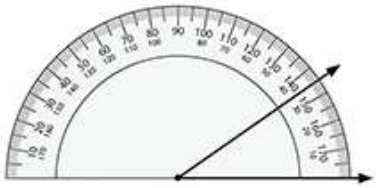
Shade the angle. Write the measure of the angle.

10.



_____

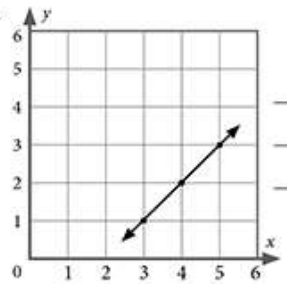
11.



_____

Write the ordered pairs that make the line.

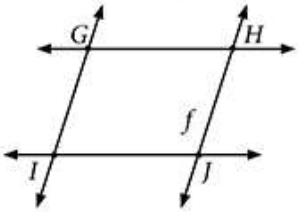
12.



_____
_____
_____

Use plane *f* to find the answers.
Write the answers using symbols.

13.



Name 2 lines.

_____

Name 2 points.

_____

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Tool Prices	
claw hammer	$9.99
flat-head screwdriver set	$11.99
Phillips-head screwdriver set	$14.99
small drill	$29.93
electric screwdriver	$31.99
measuring tape	$4.99
handsaw	$7.99
circular saw	$34.99
adjustable wrenches	$9.99
gloves	$7.97
socket set	$17.99

Mr. Curtis built a toolbox for each of his four sons. He has $50 to spend to equip each box. He plans to purchase up to five items for each box, and all four boxes must have the same tools.

Use the chart to plan the items for the boxes.

1.

Tool	Price	Price for Four

total price: _____

Write the missing number or letter.

2. $8 \times ____ = 0$
3. $____ \times 33 = 33$
4. $(5 \times 4) \times 3 = ____ \times (4 \times 3)$
5. $(2 \times ____) \times 6 = 2 \times (7 \times 6)$
6. $a \cdot (c \cdot d) = (a \cdot ____) \cdot d$
7. $n \times 0 = ____$

Write the product.

8. $4 \times 20 =$ _____
9. $5 \times 500 =$ _____
10. $7 \times 2{,}000 =$ _____

Use the Distributive Property to solve.

11. $3 \times 29 = __?__$

$3 \times (____ + ____) =$

$(3 \times ____) + (3 \times ____) =$

$____ + ____ = ____$

12. $7 \times 45 = __?__$

$7 \times (____ + ____) =$

$(____ \times ____) + (____ \times ____) =$

$____ + ____ = ____$

13. $5 \times 16 = __?__$

$____ \times (____ + ____) =$

$(____ \times ____) + (____ \times ____) =$

$____ + ____ = ____$

14. $8 \times 62 = __?__$

$8 \times (____ + ____) =$

$(____ \times ____) + (____ \times ____) =$

$____ + ____ = ____$

Complete the equation.

15. $7 \times 7 = __?__$ ○ 59 ○ 49
16. $__?__ \times 7 = 42$ ○ 6 ○ 8
17. $__?__ \times 7 = 21$ ○ 3 ○ 4
18. $7 \times 8 = __?__$ ○ 54 ○ 56
19. $7 \times 9 = __?__$ ○ 63 ○ 64
20. $7 \times 2 = __?__$ ○ 14 ○ 16

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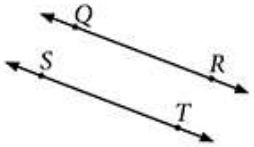
Measuring Angles

Name _____

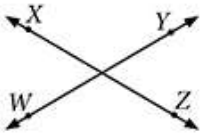
Identify the lines as *intersecting*, *parallel*, or *perpendicular*.

1.

_____

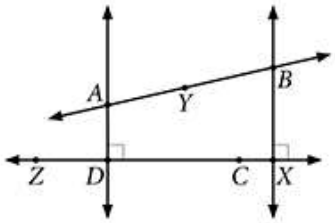
2. 

_____

3. 

_____

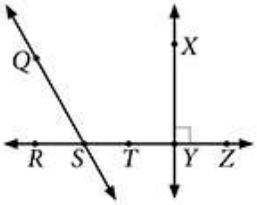
Use the figure to find the answer.



4. Name two lines that are parallel. _____
5. Name two lines that are perpendicular.

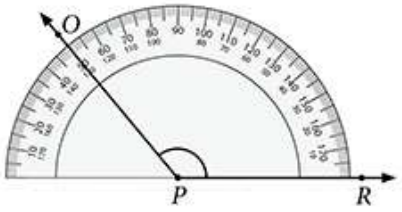
   _____
6. Name a point on line *AB*. _____
7. Name a right angle. _____

Use the figure to name an angle and classify it as *acute*, *obtuse*, *right*, or *straight*.



8. It measures greater than 90°. _____ is _____.
9. It measures less than 90°. _____ is _____.
10. It measures 90°. _____ is _____.
11. It measures 180°. _____ is _____.

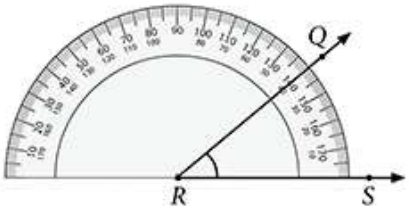
Use a symbol and three points to name the angle. Classify the angle as *acute*, *obtuse*, *right*, or *straight*. Write the measure of the angle.

12. 

name: _____

classification: _____

measure: _____

13. 

name: _____

classification: _____

measure: _____

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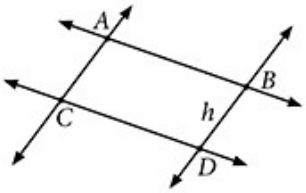
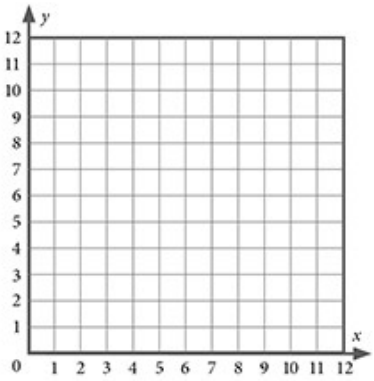
Use plane *h* to find the answer.



1. Name 2 points. _____
2. Name 2 lines. _____
3. Name 2 line segments. _____

Plot and label the points on the graph. Use the graph to find the answer.



4. *A* (5, 2) *B* (3, 1) *C* (1, 7)
   D (4, 8) *E* (10, 8)
5. Do points *A*, *B*, *C*, *D*, and *E* form a straight line? _____
6. Do any of the points share an *x*-coordinate? _____
7. Do any of the points share a *y*-coordinate? _____

Solve.

8. 417 + 33 = _____
9. 6.73 + 2.26 = _____
10. $10.99 + $3.67 = _____

11. $56.11 + $1.99
12. 6,522 + 3,468
13. 5.631 + 4.784
14. 6,561,214 + 1,384,697

15. $\frac{32}{4}$ = _____
16. $8\overline{)80}$
17. 8 × _____ = 16
18. _____ × 8 = 72

Mark the answer.

19. 8 × 7 = ? ○ 52 ○ 54 ○ 56
20. 8 × 8 = ? ○ 62 ○ 63 ○ 64
21. 6 × 8 = ? ○ 42 ○ 46 ○ 48
22. 3 × 8 = ? ○ 22 ○ 24 ○ 26
23. 5 × 8 = ? ○ 35 ○ 40 ○ 45
24. 8 × 0 = ? ○ 0 ○ 1 ○ 8

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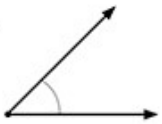
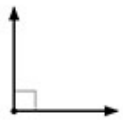
Geometry Review

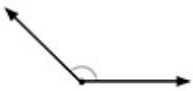
Name _____

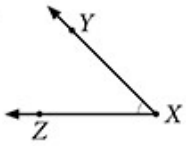
Mark the answer.

1. 
   - ○ acute
   - ○ obtuse
   - ○ right

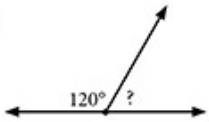
2. 
   - ○ obtuse
   - ○ right
   - ○ straight

3.
   - ○ obtuse
   - ○ right
   - ○ straight

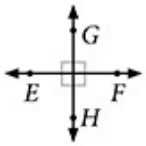
4. 
   - ○ acute
   - ○ obtuse
   - ○ right

5. 

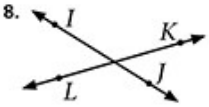
   - ○ $\angle XYZ$
   - ○ $\angle ZYX$
   - ○ $\angle ZXY$

6. 

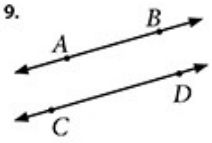
   - ○ 180°
   - ○ 60°
   - ○ 90°

7. 

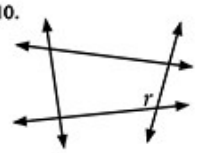
   - ○ plane
   - ○ parallel lines
   - ○ perpendicular lines

8. 

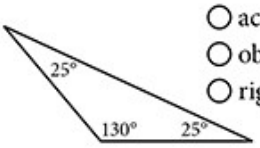
   - ○ intersecting lines
   - ○ parallel lines
   - ○ perpendicular lines

9. 

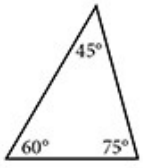
   - ○ parallel lines
   - ○ perpendicular lines
   - ○ plane

10. 

    - ○ parallel lines
    - ○ perpendicular lines
    - ○ plane

11. 

    - ○ acute triangle
    - ○ obtuse triangle
    - ○ right triangle

12. 

    - ○ acute triangle
    - ○ obtuse triangle
    - ○ right triangle

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