

BOARD PROBLEMS CH. 8/9

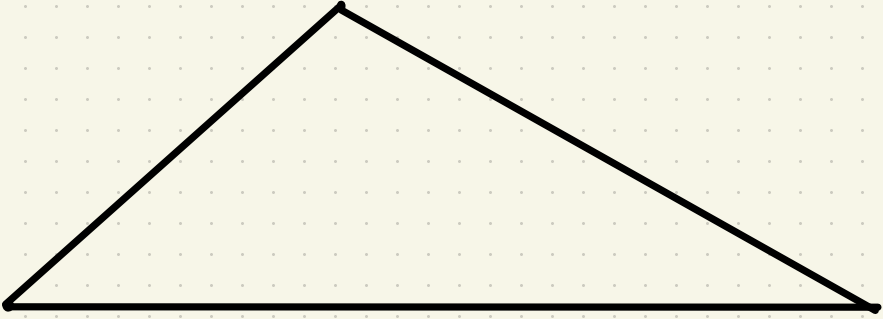
① DEFINE A POSTULATE.

② GIVE AN EXAMPLE OF A POSTULATE.

③ DRAW A TRIANGLE W/SIDES $4''$, $5''$ & $6''$.

a) BISECT ALL THE ANGLES

b) USE A COMPASS TO DRAW A CIRCLE INSIDE THE TRIANGLE, CENTERED AT THE INTERSECTION OF THE 3 BISECTORS THAT TOUCHES IN EXACTLY ONE POINT ON EACH SIDE (A CENTROID).



Ch. 8/9 - PERIMETER & Area

Definition of PeRIMeter: Distance around the sides of a figure.
Units are expressed in one-dimension, length.

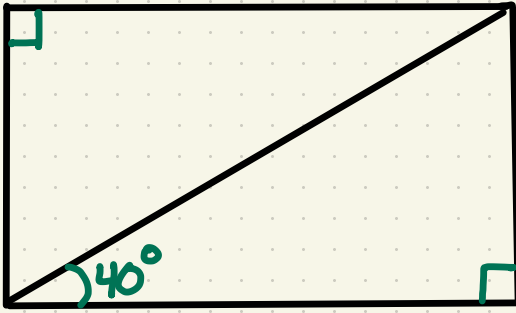
Quadrilaterals: a shape with 4-sides

A) Rectangle: A quadrilateral with 4 right angles

B) Parallelogram: A quad. With two pairs of parallel sides.

C) Rhombus - a quad. With four congruent sides

D) Trapezoid - a quad. With only one pair of parallel sides.

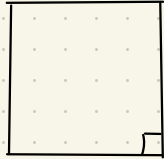


THE SUM OF ALL INTERIOR ANGLES IN A TRIANGLE IS: _____

THE SUM OF ALL INTERIOR ANGLES IN A QUADRILATERAL: _____

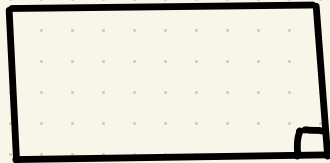
Ch. 9 - AREA

① SQUARE:



$A =$ _____

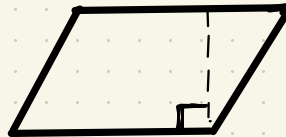
② RECTANGLE:



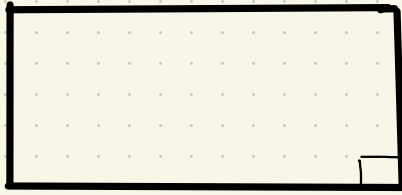
$A =$ _____

③ PARALLELOGRAM:

$A =$ _____



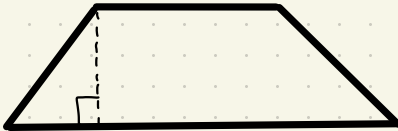
④ TRIANGLE:



$$A = \underline{\hspace{2cm}}$$

⑤

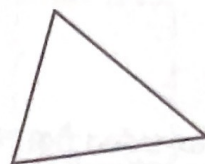
TRAPEZOID



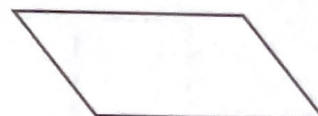
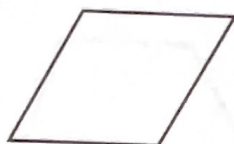
$$A = \underline{\hspace{2cm}}$$

Identify the shapes, using the names studied in this lesson.

1. _____ 2. _____ 3. _____

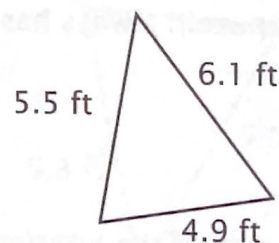
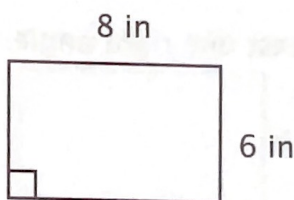
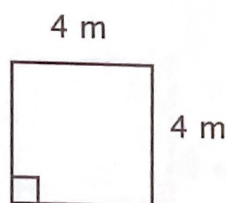


4. _____ 5. _____ 6. _____

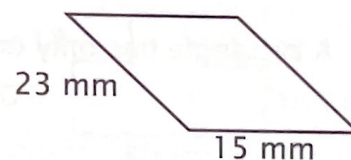
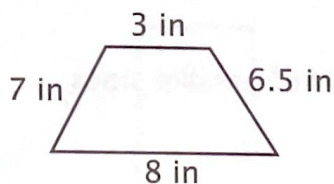
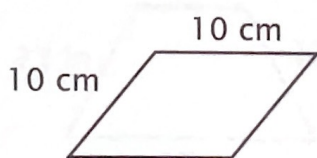


Find the perimeter.

7. $P =$ _____ 8. $P =$ _____ 9. $P =$ _____



10. $P =$ _____ 11. $P =$ _____ 12. $P =$ _____



True or false.

13. Perimeter is the distance around a shape or figure.

14. Any four-sided figure can be called a quadrilateral.

15. The sum of the interior angles of a quadrilateral add up to 180° .

16. A square is a rhombus with four right angles.

17. A trapezoid always has at least one right angle.

18. The sum of the interior angles of a triangle add up to 180° .

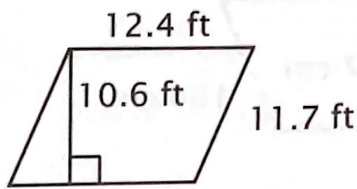
19. A rectangle has only one pair of parallel sides.

20. A square is a rectangle with all four sides equal.

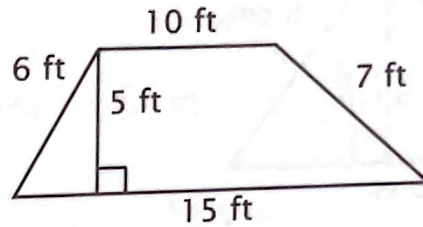
LESSON PRACTICE

Find the area of each figure.

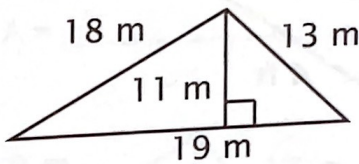
1. $A =$ _____



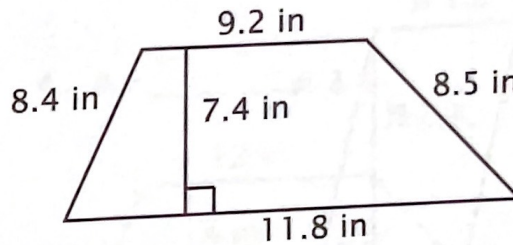
2. $A =$ _____



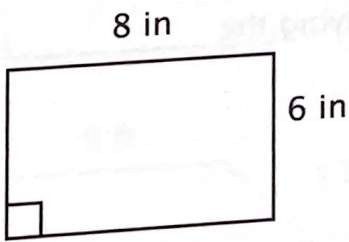
3. $A =$ _____



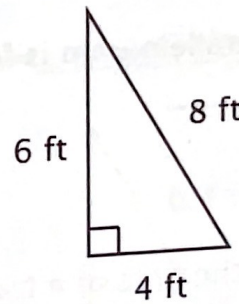
4. $A =$ _____



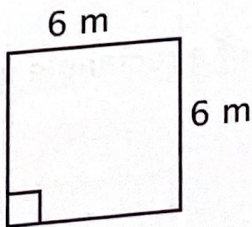
5. $A =$ _____



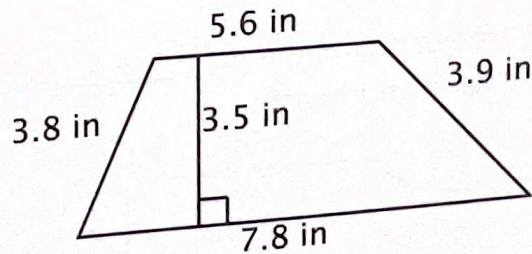
6. $A =$ _____



7. $A =$ _____

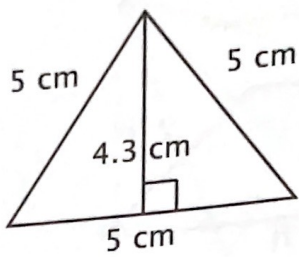


8. $A =$ _____

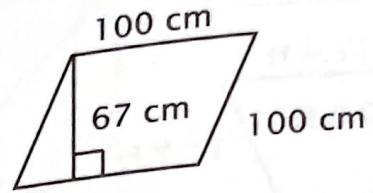


LESSON PRACTICE 9A

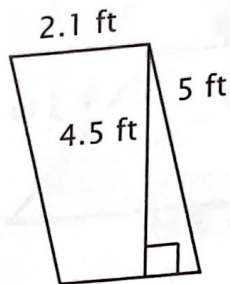
9. $A =$ _____



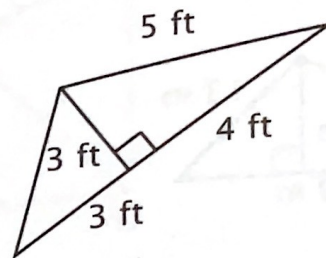
10. $A =$ _____



11. $A =$ _____



12. $A =$ _____



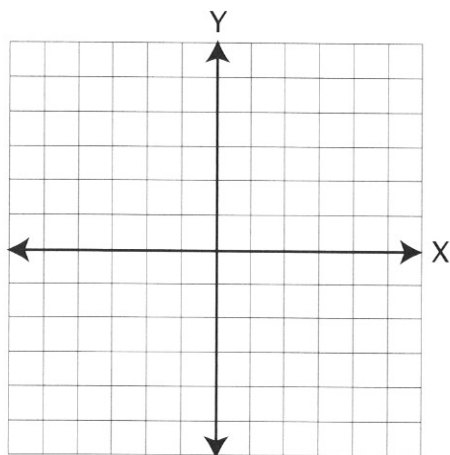
13. The area of a parallelogram is found by multiplying the _____ by the _____.

14. In order to find the area of a trapezoid, it is first necessary to find the _____ base.

15. The area of a triangle is _____ the area of a rectangle with the same base and height.

LESSON PRACTICE

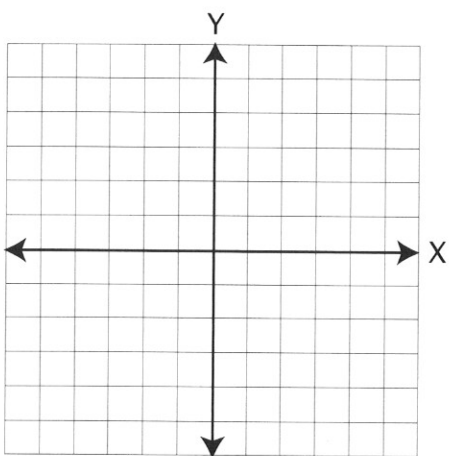
Identify the slope and intercept of each equation.
Then draw the line corresponding to the equation.



1. $Y = -2X - 5$

$m = \underline{\hspace{2cm}}$

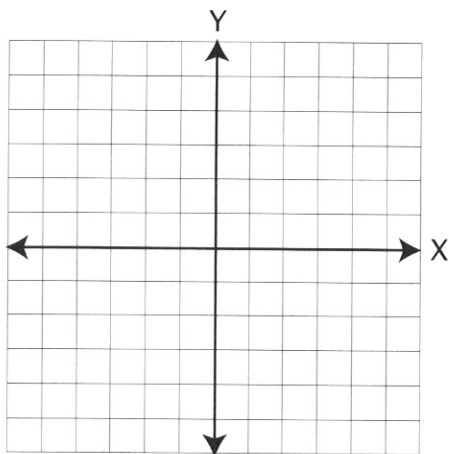
$b = \underline{\hspace{2cm}}$



2. $Y = -\frac{3}{2}X$

$m = \underline{\hspace{2cm}}$

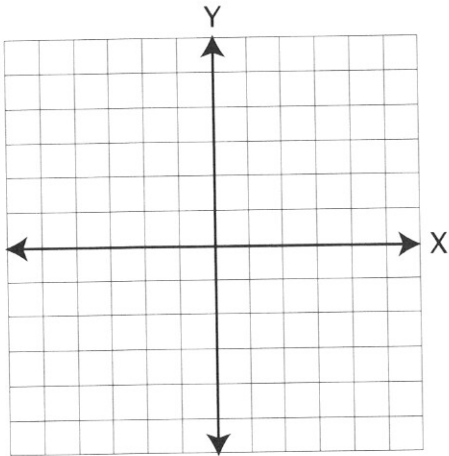
$b = \underline{\hspace{2cm}}$



3. $X = 0$

$m = \underline{\hspace{2cm}}$

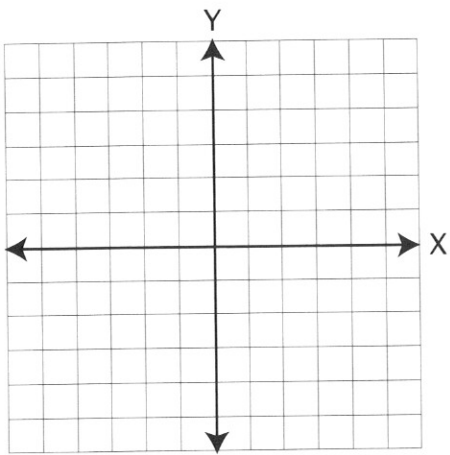
$b = \underline{\hspace{2cm}}$



4. $Y = -3X + 2$

$m =$ _____

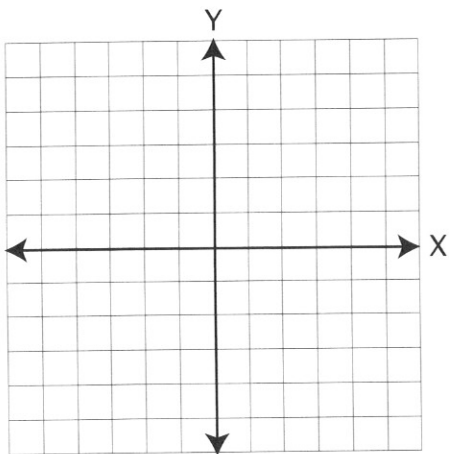
$b =$ _____



5. $Y = 2X - 1$

$m =$ _____

$b =$ _____



6. $Y = 4$

$m =$ _____

$b =$ _____

SYSTEMATIC REVIEW

- Joey borrowed four dollars to open a video store. He lost one dollar each day. Fill in the table on the right.
- Plot these points and connect them.
- Write an equation for the line.

(Dollars = ___ per Day - ___ borrowed)

- Given: $Y = -2X$.
This time Joey started with ___ dollar(s) and lost ___ dollars each day.
Use the table under the graph.

- Graph the points and the line.

- The slope is ___ and the intercept is ___ .

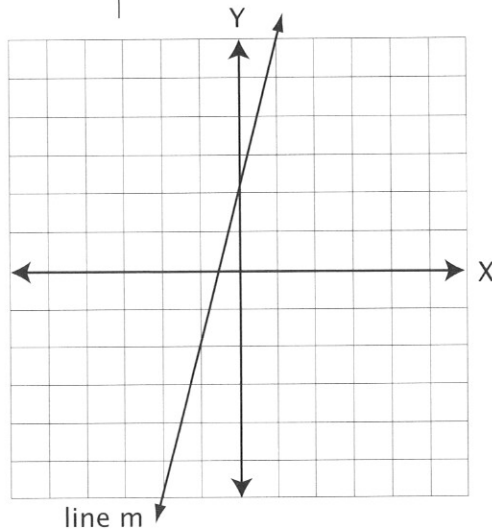
- Estimate the slope and intercept of line m on the graph.

- What would the equation of the line be using the slope-intercept formula?

- This line is graphed within which quadrants?

- Graph $Y = -2$ and label it line g .

Day	Dollars
_____	_____
_____	_____
_____	_____
_____	_____



Day	Dollars
_____	_____
_____	_____
_____	_____
_____	_____

Simplify and solve for the unknown.

11. $60R - 90R = 70$

12. $-18 + 54X = 27$

13. $[(6 + 5)^2 - 1] \div 12 = 3X + |-2X|$
X is positive

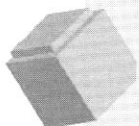
14. $4B - 32B = 36B - 8BY$ ($4B \neq 0$)

15. $1.03 - .8Y = 5$

16. $3\frac{3}{4}Y = 2\frac{1}{5} + 3\frac{5}{6}$

17. $5X - 20 = 50X + 35$

18. $\frac{3}{10}X - 3\frac{1}{6}X = 4\frac{1}{4}$



QUICK REVIEW

“What fraction of 6 is 3?” is written as $WF \times 6 = 3$.

EXAMPLE Write an equation and solve: What fraction of 10 is 5?
 $WF \times 10 = 5$ Solving for the unknown :

$$\frac{1}{10}(WF \times 10) = \frac{1}{10}(5) \rightarrow WF = \frac{5}{10} = \frac{1}{2}$$

19. Write an equation and solve:
 What fraction of 7 is 5?

20. Write an equation and solve:
 What fraction of 5 is 2?