

1

What shape am I?

- a) four sides; all sides equal; four right angles _____
- b) four sides; opposite sides equal; four right angles _____
- c) four sides; opposite sides parallel; no right angles _____
- d) four sides; exactly two sides parallel _____
- e) four sides; opposite sides equal; no sides perpendicular _____
- f) four sides; opposite sides parallel; adjacent sides perpendicular _____
- g) four sides; all sides equal; no sides perpendicular _____
- h) four sides; no sides parallel; no sides perpendicular _____

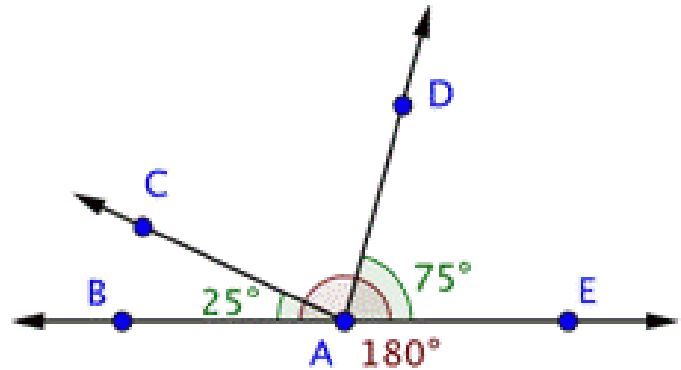
2

Below is a drawing of a straight angle $\angle BAE$ (remember that a straight angle is always 180°). The angle $\angle DAE$ equals 75° and the angle $\angle BAC = 25^\circ$.

a) Find an angle $\angle CAD =$

b) Find an angle $\angle BAD =$

a) Find an angle $\angle CAE =$



3

Calculate (simplify to the lowest term where possible)

$$\frac{12}{15} - \frac{3}{15} =$$

$$\frac{9}{50} + \frac{21}{50} =$$

$$\frac{18}{35} - \frac{13}{35} =$$

4

a) Find the coordinates of each vertex of triangle QPR

Q (,) P (,) R (,)

b) Reflect this triangle horizontally (flip across y-axis) to get a triangle Q'P'R'

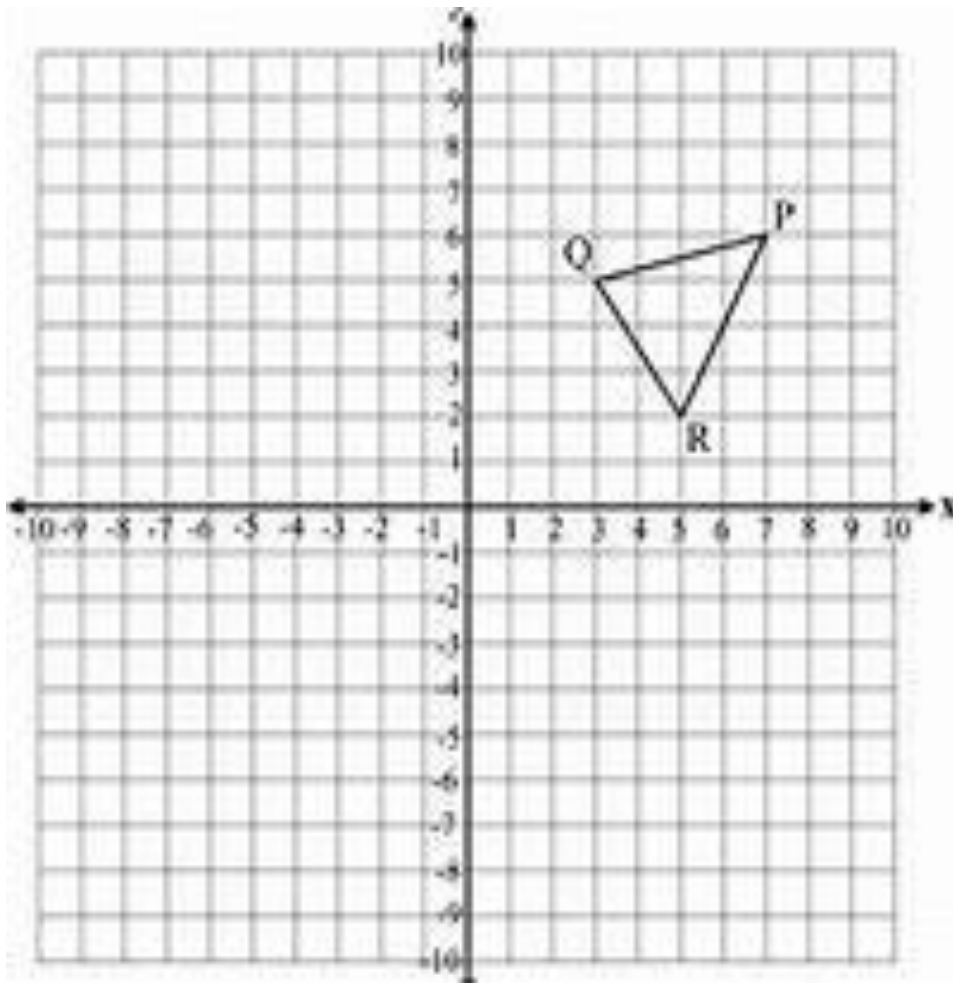
Find the coordinates of each vertex:

Q' (,) P' (,) R' (,)

c) Reflect this triangle vertically (flip across x-axis) to get a triangle Q''P''R''

Find the coordinates of each vertex for reflected triangle L''K''M'':

Q'' (,) P'' (,) R'' (,)



Insert the missing fraction:

5

a) $\underline{\hspace{1cm}} + \frac{1}{6} = 1\frac{5}{6}$

b) $2\frac{3}{5} + \underline{\hspace{1cm}} = 5\frac{4}{5}$

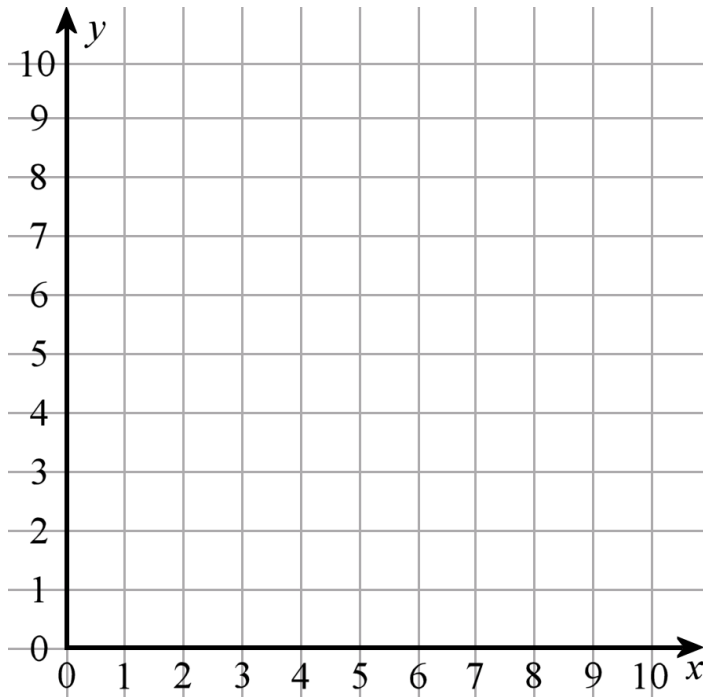
c) $\frac{3}{7} + \underline{\hspace{1cm}} = 3\frac{4}{7}$

d) $\underline{\hspace{1cm}} + \frac{3}{8} = 8\frac{5}{8}$

e) $\underline{\hspace{1cm}} + 5\frac{2}{9} = 10\frac{4}{9}$

f) $\underline{\hspace{1cm}} - \frac{4}{5} = 9\frac{1}{5}$

- 6
- Draw a circle with center point (5,6) and a radius of 3 units.
 - Draw another circle with the same center point but double the radius.
 - How many common points your second circle has with x-axis? _____
 - How many common points your second circle has with y-axis? _____



7

Write down the expressions:

- Milan spent $\$a$ for a soccer ball. It was \$14 less than he spent for his soccer cleats. Write an expression for a cleats's price.

- There are b boys in the class who play soccer, c boys in the class who play tennis and 4 boys who don't do any sport. Write an expression for a total number of boys in the class.

- The distance between your house and a school's bus stop is a meters, the distance between bus stop at school and your class is b meters. What is the distance you walk every day on your way to and from school?—

8

Calculate:

$5 + 3 =$	$5 + (-3) =$	$5 - 3 =$	$5 - (-3) =$
$-5 + 3 =$	$(-5) + (-3) =$	$(-5) - 3 =$	$(-5) - (-3) =$

Homework 28

9

Calculate:

a) $2,501 + 4,359 - 325 =$

b) $4,302 - 870 + 399 =$

c) $2,536 \div 8 =$

d) $126 \times 35 =$

10

Solve the following equations using an inverse operation.

a) $4x + 35 = 5$

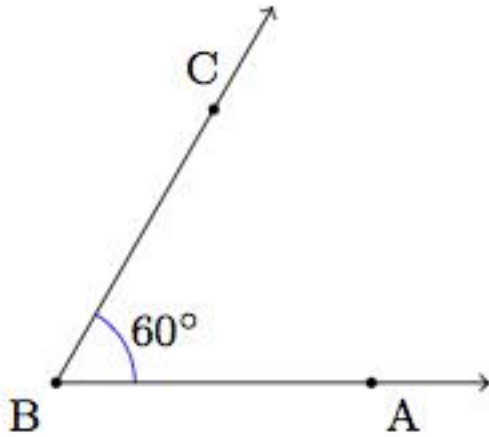
b) $x \div 3 - 4 = 26$

c) $4z + 5\frac{1}{2} = 6$

Homework 28

An angle below measures 60° degrees:

11

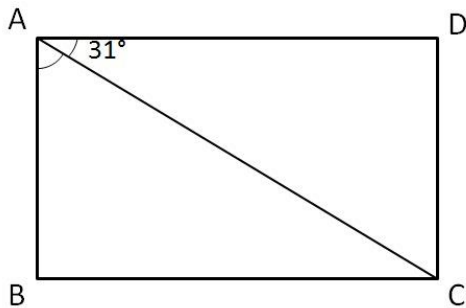


a) Draw another angle that measures 25° degrees. It should have the same vertex and share side BA .

b) How many angles are there in the figure you drew? What are their measures?

12

a) In the figure, $ABCD$ is a rectangle and $\angle CAD = 31^\circ$. Find $\angle BAC$.



$\angle BAC =$ _____

13

Open parenthesis and simplify the expressions:

$$5(3 - a) + 4(a - b + 10) = \underline{\hspace{4cm}}$$

$$10(d + 4) - 8(7 - d) = \underline{\hspace{4cm}}$$

$$3(20 + z) - 2(10 - z + a) = \underline{\hspace{4cm}}$$

14

Write down a mathematical expression to solve the problems:

a) There is a total of 50kgs of potatoes packed in the 10 identical bags. How many kgs of potatoes are in x such bags?

b) There are x kgs of potatoes packed in 12 identical bags. How many kgs of potatoes are in b such bags?

c) There are x kgs of potatoes packed equally into 10 bags. How many bags will be needed to pack z kgs of potatoes?

d) A construction crew repairs 600 meters of a road in one day. How much can be repaired in 9 days?

e) A construction crew repairs 600 meters of a road in one day. How much time is needed to repair 5km of the road?
