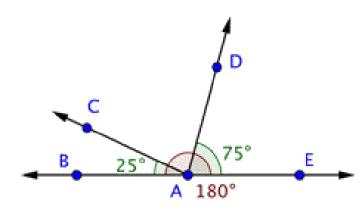
What shape am I?

- 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 \(\text{BAE} \) (remember that a straight angle is always 180°). The angle $\angle DAE$ equals 75° and the angle $\angle BAC = 25$ °.

- a) Find an angle $\angle CAD =$
- b) Find an angle $\angle BAD =$
- a) Find an angle $\angle CAE =$



Calculate (simplify to the lowest term where possible)

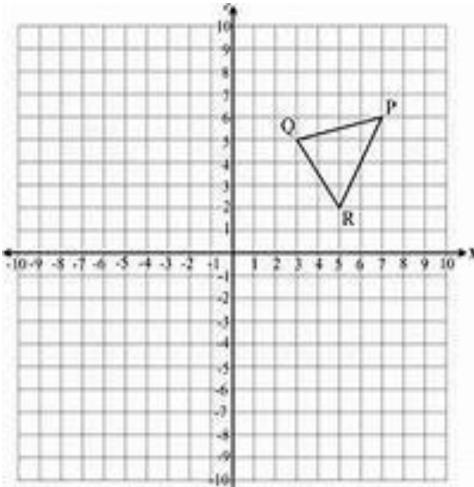
$$\frac{12}{15} - \frac{3}{15} =$$

$$\frac{12}{15} - \frac{3}{15} = \frac{9}{50} + \frac{21}{50} =$$

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

- 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:

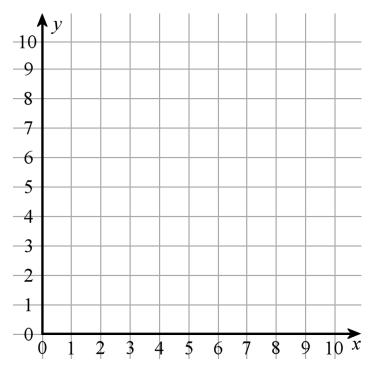
- 5

- a) ____ + $\frac{1}{6}$ = $1\frac{5}{6}$ b) $2\frac{3}{5}$ + ___ = $5\frac{4}{5}$ c) $\frac{3}{7}$ + ___ = $3\frac{4}{7}$

- d) _____ + $\frac{3}{8}$ = $8\frac{5}{8}$ e) ____ + $5\frac{2}{9}$ = $10\frac{4}{9}$ f) _____ $\frac{4}{5}$ = $9\frac{1}{5}$

Homework 28

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



7

Write down the expressions:

- a) Milan spent \$a\$ for a soccer ball. It was \$14 less than he spent for his soccer cleats. Write and expression for a cleats's price.
- b) 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.
- c) 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:

$$5 + 3 =$$

$$5 + (-3) =$$

$$5 - 3 =$$

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

$$-5 + 3 =$$

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

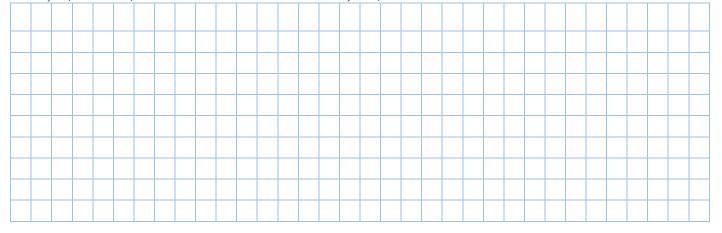
$$(-5) - 3 =$$

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

Calculate:

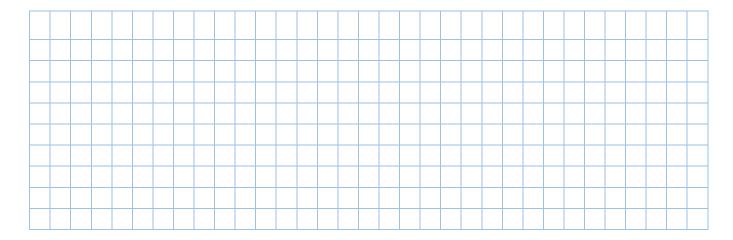
a) 2,501 + 4,359 - 325 =

b) 4,302 - 870 + 399 =



c) 2,536÷ 8 =

d) $126 \times 35 =$



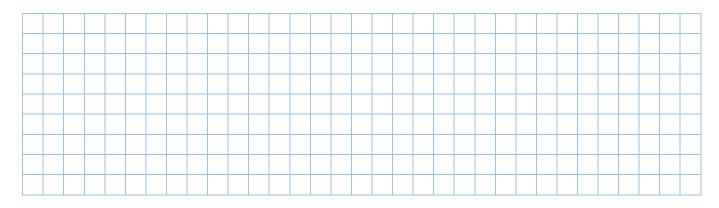
10

Solve the following equations using an inverse operation.

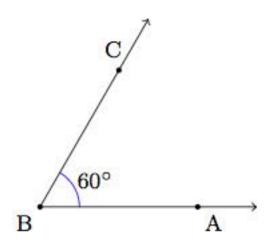
a)
$$4x + 35 = 5$$

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

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



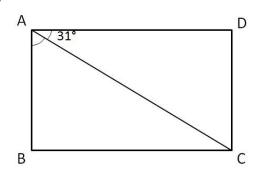
An angle below measures 60° degrees:



- 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 $\angle BAC$.



13

Open parenthesis and simplify the expressions:

$$5(3-a) + 4(a-b+10) =$$

$$10(d+4) - 8(7-d) =$$

$$3(20 + z) - 2(10 - z + a) =$$

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 \boldsymbol{x} such bags?

