

1 Write the following as percentages

a $\frac{17}{100}$

f $\frac{19}{25}$

b $\frac{35}{100}$

g $\frac{19}{50}$

c $\frac{17}{50}$

h $\frac{31}{50}$

d $\frac{23}{50}$

i $\frac{16}{25}$

e $\frac{8}{25}$

j $\frac{29}{100}$

2 Write the numbers below correct to one decimal place.

a 23.932

f 18.7613

b 47.098

g 50.092

c 91.992

h 29.578

d 930.019

i 9281.291

e 182.928

j 1928.712

3 Work out the value of the following

a 7^2

e 6^3

i 2^6

m 8^4

b 5^2

f 8^3

j 4^5

n 3^5

c 8^2

g 9^3

k 3^4

d 9^2

h 9^5

l 5^7

4 Convert the following lengths into cm.

a 45mm

f 8m

k 6.2mm

p 2km

b 75mm

g 5m

l 93.8mm

q 8km

c 37mm

h 3.5m

m 61.3mm

d 52mm

i 6.7m

n 27.56m

e 70mm

j 8.4mm

o 82.91m

5 Change the following millilitres into litres

a 4000ml

f 2750ml

k 380ml

p 842ml

b 6000ml

g 1928ml

l 275ml

q 9401ml

c 8500ml

h 8291ml

m 178ml

d 3500ml

i 785ml

n 29ml

e 7250ml

j 950ml

o 84ml

6 Convert the following kilograms into grams

- | | | | | | |
|---|--------|---|---------|---|---------|
| a | 2kg | h | 81.93kg | o | 0.037kg |
| b | 7kg | i | 1.89kg | p | 0.056kg |
| c | 12kg | j | 83.1kg | q | 0.003kg |
| d | 8.5kg | k | 0.834kg | r | 0.005kg |
| e | 6.8kg | l | 0.728kg | s | 0.004kg |
| f | 12.6kg | m | 0.82kg | | |
| g | 13.9kg | n | 0.91kg | | |

7 I pick out a red, green and blue counter from a bag. There are only three counters in the bag. List all the possible permutations of the counters that I could pick.

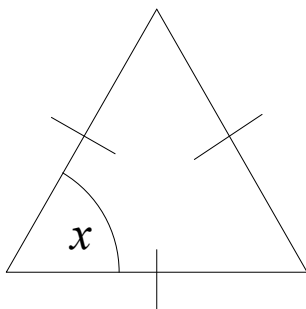
First Counter	Second Counter	Third Counter

8 Neil drives ... miles in ... hours. What is his average speed?

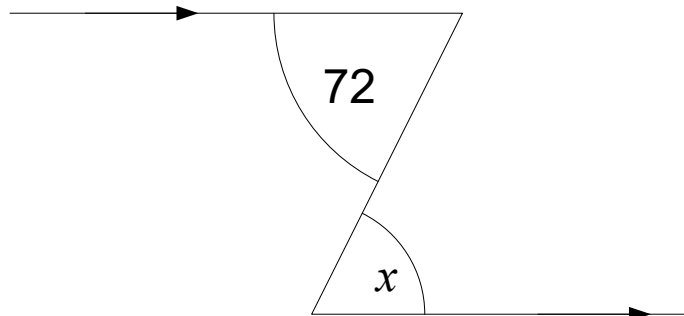
- | | | | |
|---|---------------------|---|----------------------|
| a | 40 miles in 2 hours | g | 120 miles in 3 hours |
| b | 60 miles in 2 hours | h | 150 miles in 3 hours |
| c | 90 miles in 2 hours | i | 200 miles in 5 hours |
| d | 50 miles in 2 hours | j | 200 miles in 4 hours |
| e | 80 miles in 4 hours | k | 180 miles in 5 hours |
| f | 60 miles in 5 hours | | |

9 Work out the size of the angles marked x below and state the reasons why.

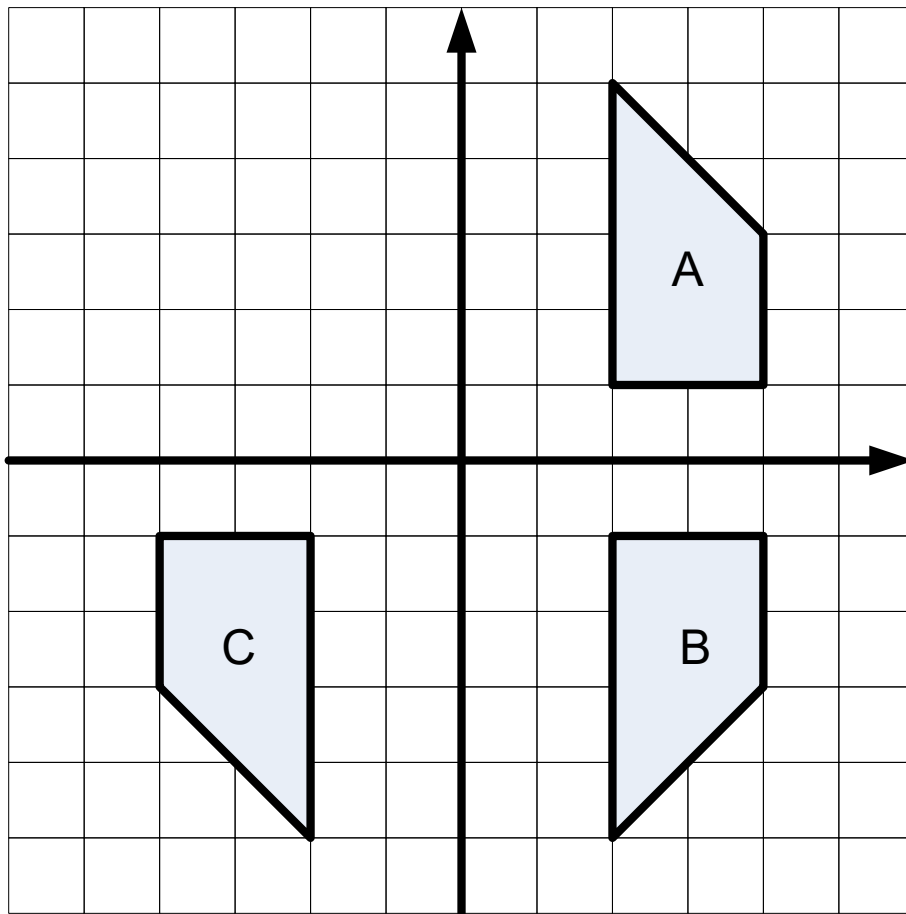
a



b



10 Describe fully the transformations stated below.



- a Describe fully the single transformation that maps A to B.

- b Describe fully the single transformation that maps B to C.

- c Describe fully the single transformation that maps A to C.

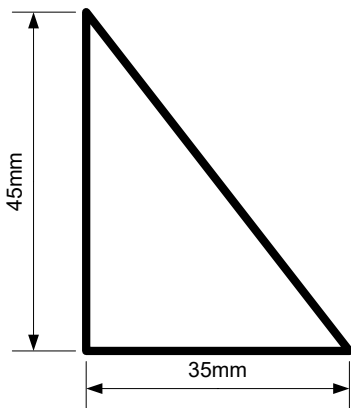
11 Billy buys a car for £20,000. He pays 20% deposit. He pays the rest off in twelve equal instalments. How much is each instalment?

12 Yvonne buys a fridge freezer. She pays 25% deposit and then pays the rest of the cost off in 6 equal instalments of £60. How much did the fridge cost altogether?

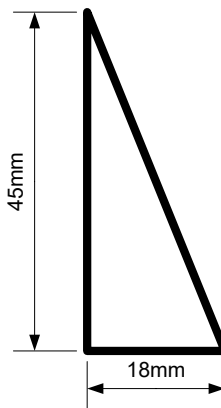
13 Ellie pays a 20% deposit for a car of £3000. She pays the rest of the cost in nine equal instalments. How much is each instalment?

14 Calculate the area of the following triangles.

a



b



c

