Revision

1   Change 240 minutes to hours.
2   How many seconds are there in 1 hour?
3   Change 200 minutes into hours.
4   How many minutes are there in 3 hours?
5   Write 0.8 as a percentage.
6   Write 0.27 as a percentage.
7   Change 34% into a decimal.
8   Change 7% into a decimal.
9   Change 93% into a decimal.
10   Calculate 5×(3+7)
11   Work out 9÷(18-15)
12   Work out 25×(3+2)
13   Write down all the prime numbers between 10 and 20.
14   Circle the prime numbers from the list below.

   11   17   18   24   27   29   33   37   51   60

15   Write all the prime numbers less than 10.

16   Find the number exactly halfway between 40 and 70.

17   Find the co-ordinates of the midpoint of the line segment shown below.

(8, 14)

(-7, 10)
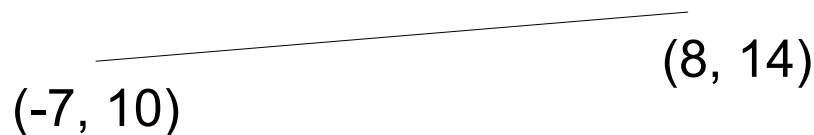
18   What number is halfway between 17 and 30?

19   Bill got in his car and started driving at 8:00 am. He drove until 12:30 pm. He drove 135 miles. What was his average speed?

20   Simon took off from Heathrow at 06:10.   He landed in Spain at 09:00. Spain is one hour ahead of the UK. The aircraft flew at 600 mph. How far away was the airport in Spain?

21   Caleb walked to the shop. He set off at 11am. He walked 4 mph He got to the shop at 12:15pm. How far away was the shop from where Caleb had started walking?

22
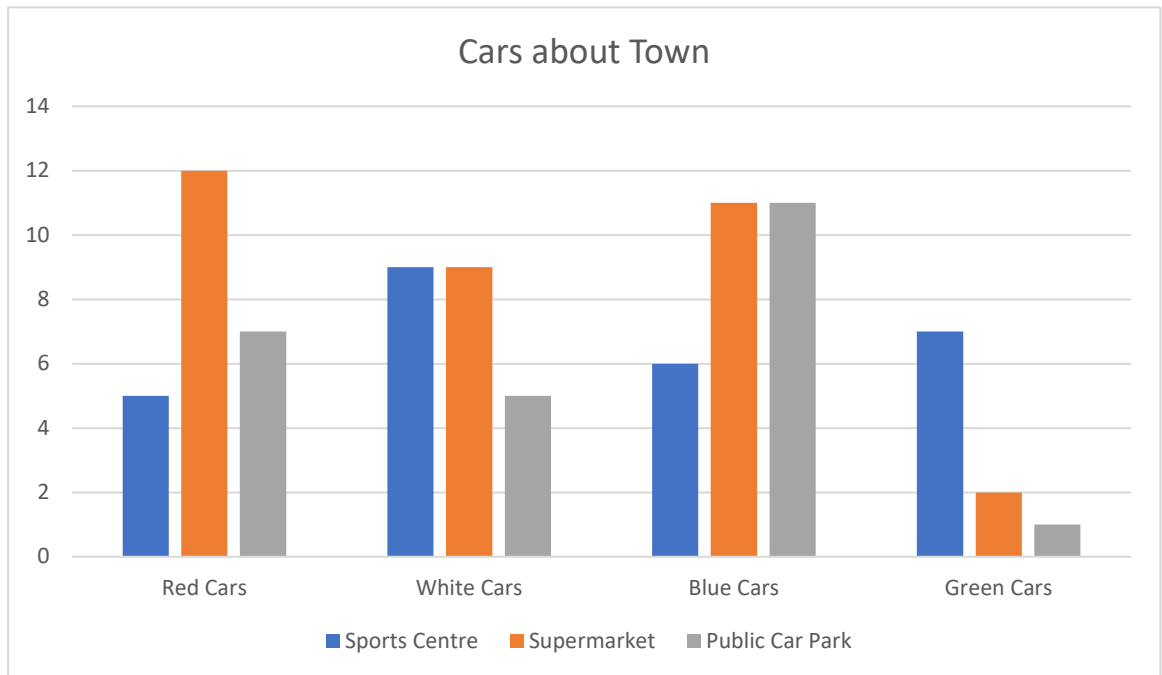
A   Which colour of car was the most popular?

B   Where was the most popular place to park?

C   What is the mode of car?

D   What is the range of cars in different locations?

E   What is the range of the car colours?

F   Altogether, 100 cars were counted. The remaining cars were silver. How many silver cars were there altogether?

23   a   Solve w + w + w = 18

     b   Solve y-5=12

     c   Solve t + 16 = 30

     d   Solve 3t = 24

     e   Solve 8w = 40

     f   Solve 3k + 2 = 20

     g   Solve 7k + 4 = 60

     h   Solve 6j – 4 = 38

24   Work out 45 × 59

25   Work out 34 × 85

26   Work out 72 × 54

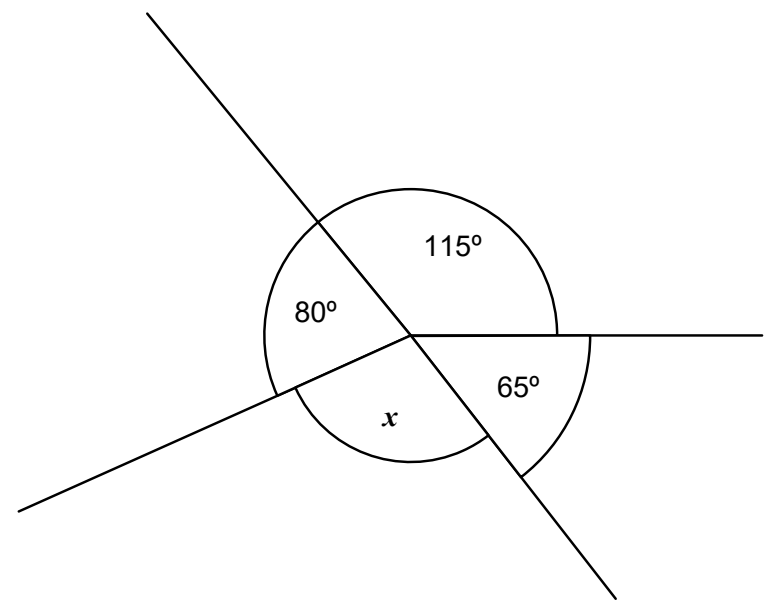27   Find the value of x.

a
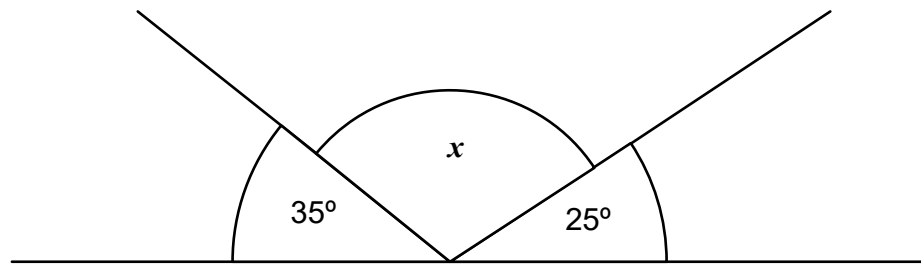
b   AB is perpendicular to BC.
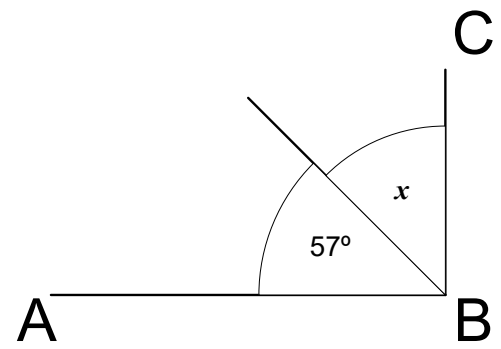
c   In the diagram below, find x and give the reason why.

28       $\sqrt{64} + 3^3 =$

29       $7^2 + 5^3 + \sqrt{81} =$

30

4.5 cm = _____ mm   7.6 m = _____cm

7.6 cm = _____mm   9 m = _____ cm

9 cm = _____ mm   12 m = _____mm

12 cm = _____mm   8 m = _____ mm

8 cm = _____ mm   92 m = _____mm

92 cm = _____mm

4.5 m = _____ cm

31   Expand 3(4x + 8)

       Expand 4(8x - 2)

       Expand 5(3n + 9)

       Expand 7(4n - 2)

       Expand 9(3m - 7)

       Expand 6(5m – 2)

32   Work out

$$\frac{1}{4} \; of \; 40 =$$

$$\frac{1}{5} \; of \; 40 =$$

$$\frac{1}{6} \; of \; 48 =$$

$$\frac{1}{3} \; of \; 24 =$$

$$\frac{1}{5} \; of \; 60 =$$

$$\frac{1}{4} \; of \; 80 =$$

33   Give the answers to the following questions in their simplest forms

$$\frac{3}{4} \times \frac{8}{12} =$$

$$\frac{14}{20} \times \frac{5}{7} =$$

$$\frac{9}{10} \times \frac{15}{90} =$$

34   Find the highest common factor of 34 and 85.

Find the lowest common multiple of 16 and 40.

Find the highest common factor of 30 and 45.

Find the lowest common multiple of 25 and 30.

35   Find the median, mean, mode and range of the data set below.

35   28   33   22   99   10   88   93   33   32

36   I spin a fair 6 sided die. What is the P(d > 4) ?

What is P(even)?

37   Give the answers to the following in the simplest form.
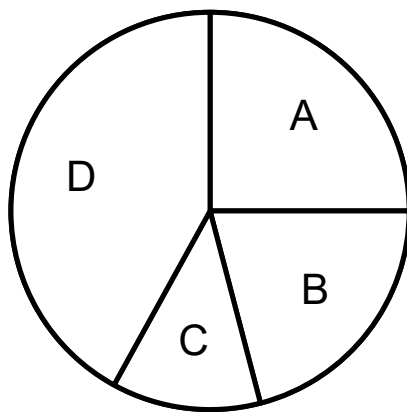
$$\frac{3}{5} + \frac{1}{2} =$$

$$\frac{1}{3} + \frac{3}{4} =$$

$$\frac{3}{4} - \frac{3}{7} =$$

$$\frac{8}{9} - \frac{4}{5} =$$

39   A spinner is shown below.

Mark on the probability scale where you think the chances of each letter coming up are on the scale.

40   Bill bought some bread. Alice bought twice as much bread as Bill. Charlie bought one less loaf than Alice. Write three expressions showing the comparative amount of bread each person bought.

41   The perimeter of the oblong below is 340cm in total.

$$6k + 20$$

4k
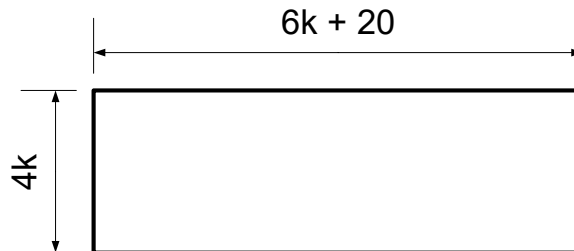
        a   Derive an expression for the perimeter of the oblong.

        b   Find the value of k.

        c   Find the area of the oblong.

42   Bill bought some chocolates, mints and chews. The proportion was 3:4:7. If Bill bought 36 chocolates:

        1   How many more chews than mints did he buy?

        2   He wanted to share the sweets out equally amongst his 7 friends. How many sweets did each person get?