Measures, Geometry and Data

Name :   Class :   Date :

Mark :   /26   %

1) Work out the conversions below.   [1]

24 km = ☐ miles   35 miles = ☐ km

3 m = ☐ inches   160 inches = ☐ m

7 feet = ☐ cm   120 cm = ☐ feet

12 inches = ☐ cm   50 cm = ☐ inches

2) Work out the conversions below.   [1]

40 kg = ☐ lb   11 lb = ☐ kg

3) Work out the conversions below. [1]

12 gallons = ☐ litres   63 litres = ☐ gallons

16 litres = ☐ pints   14 pints = ☐ litres
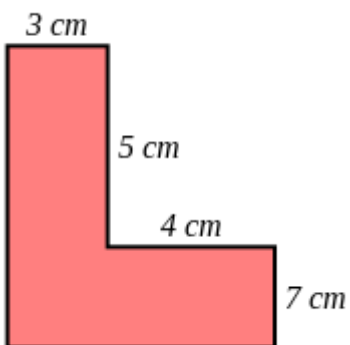
4) Find the perimeter of the rectangle. [1]

10 m

12 m
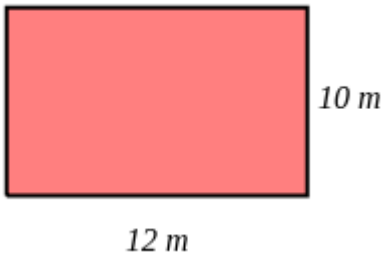
Perimeter = ☐ m

5) Find the perimeter of the shape below. [1]

3 cm

5 cm

4 cm

7 cm

Perimeter = ☐ cm

6) Find the perimeter of the shape below.   [1]

6 cm

8 cm

6 cm

10 cm
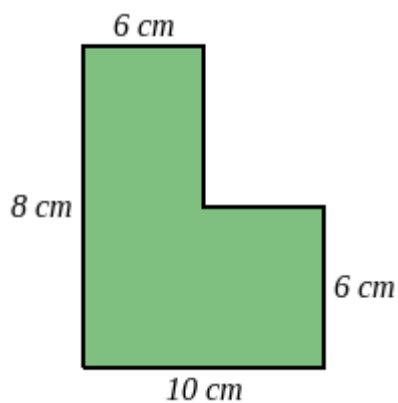
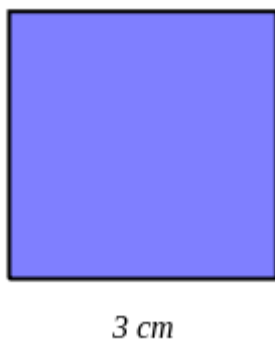Perimeter = ☐ cm

7) Find the area of the square.   [1]
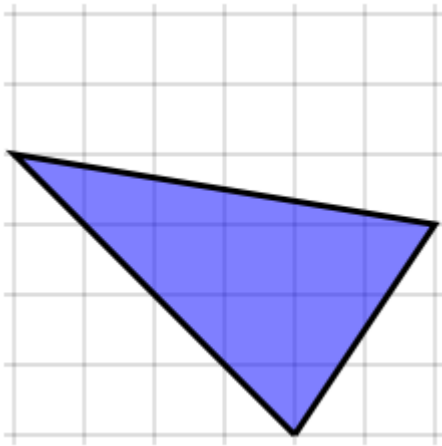
3 cm

Area = ☐ cm^2

8) Find the area of a rectangle, given that it has sides of length 12 metres   [1]
and 2 metres.

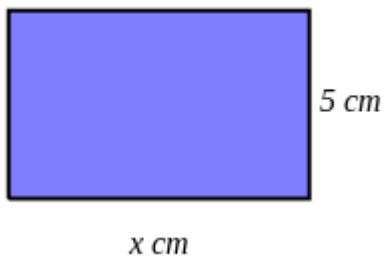Area = ☐ m^2

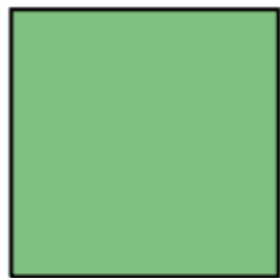**9)** Estimate the area of the triangle by counting unit squares   [1]

Area is about ☐ unit squares

10) The rectangle below has length x cm, width 5 cm and perimeter 30 cm.   [1]
Find x.

5 cm

x cm

x = ☐ cm

11) Given that the area of the square below is 4 cm^2, find the length of its side, x.. [1]

x cm

x = ☐ cm

12) Complete the table to show the properties of 4 shapes. [1]
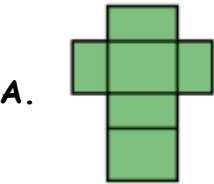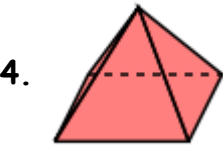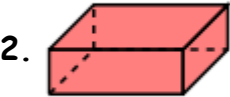
Shape	Number of sides	Number of right angles	Regular shape? (yes or no)
	4	0	no

13) Match the 3D shapes with the nets [1]

1.

2.

3.

4.

A.

B.

C.

D.
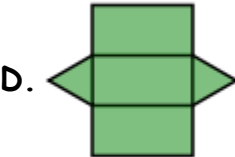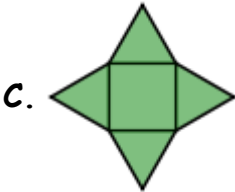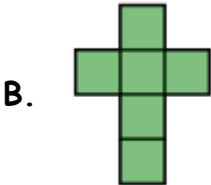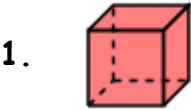
14) Estimate (do not measure) the size of the marked angle. [1]
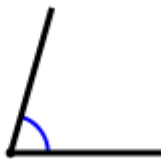
angle = ____ °

15) Name the type of angle shown below.   [1]

☐

16) Name the type of angle shown below.   [1]

☐

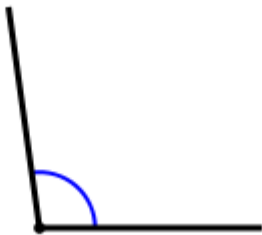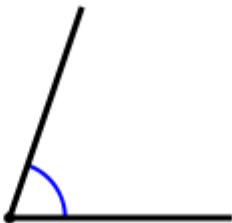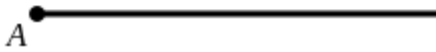**17)** Construct, with a protractor, an angle of 46 ° at point A using the base   [1]
line given below

A

18) Match the angles with the words   [1]

       1. 90 °   A. three-quarter turn
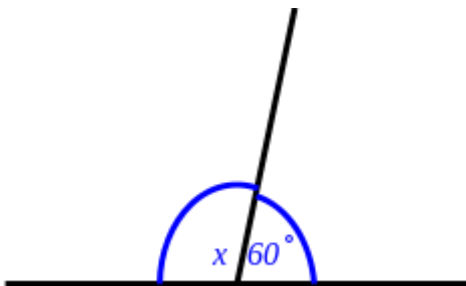
       2. 180 °   B. half turn

       3. 270 °   C. full turn

       4. 360 °   D. quarter turn

19) Find the value of x [1]

x 60°

$x =$ ⬚ °

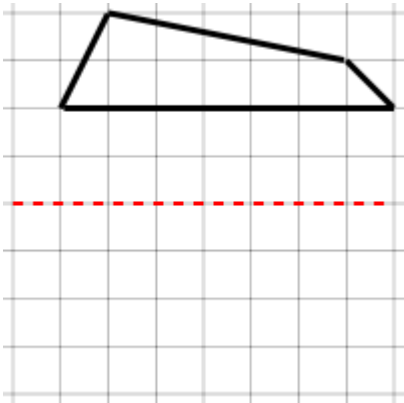**20)** Find the value of c [1]
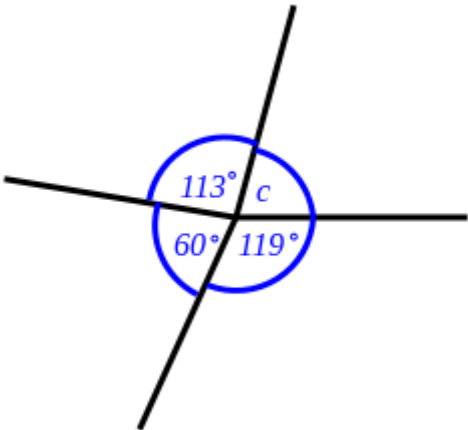
$c =$ ⬚ °

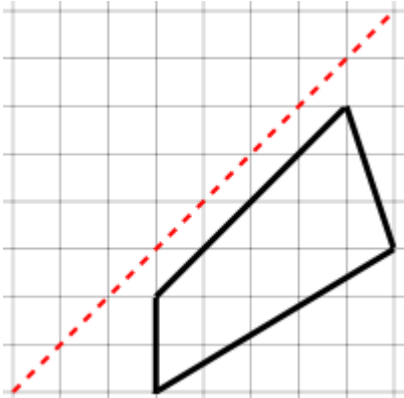**21)** Reflect the shape in the dotted mirror line.   [1]
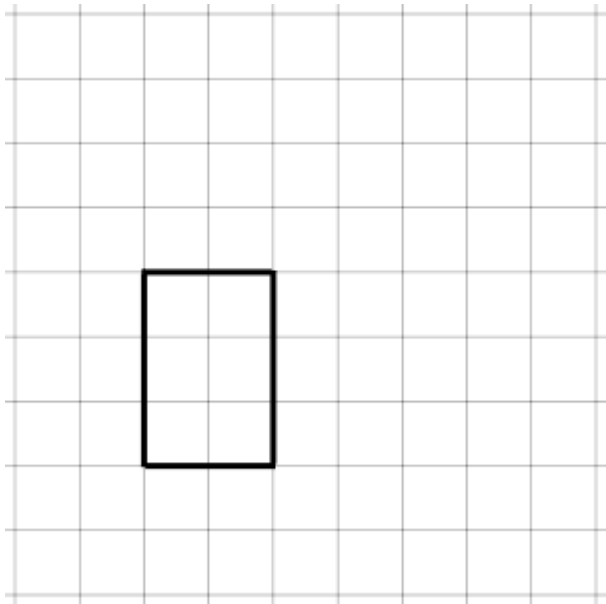

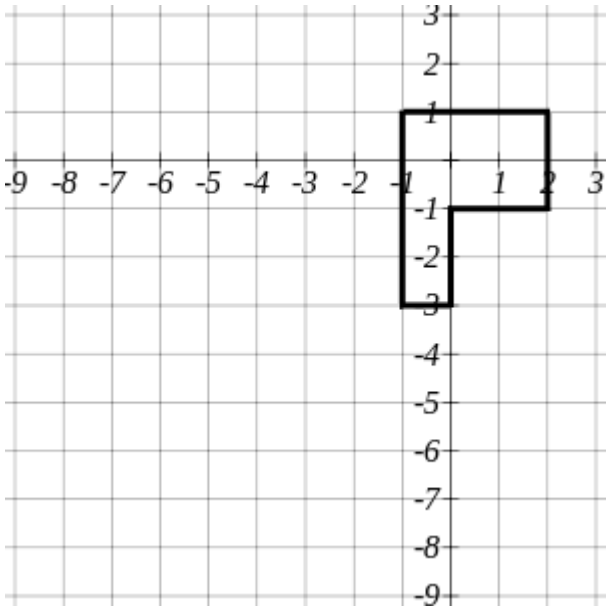**22)** Reflect the shape in the dotted mirror line.   [1]

23) Translate the shape 3 boxes to the right and 1 box up. [1]

24) Translate the shape 7 boxes to the left and 5 boxes down. [1]

25) The raw data below shows the colour of the cars that were parked outside of a school

Black	Red	Black	Red	Yellow	Yellow
White	Yellow	Purple	Red	Yellow	Green
White	Blue	Purple	Blue	Green	Black
Yellow	Green	Blue	Blue	Purple	Blue

Complete the frequency table for the car colours

Colour	Blue	Red	Yellow	Green	Black	White
Tally						
Frequency						

26) Use the bus timetable to answers the questions below.   [1]

Place	Arrival Time	Departure Time
Paignton	13:14	13:16
Totnes	13:45	13:51
Plymouth	14:13	14:18
Dawlish	14:47	14:51

a) How long is the journey between Paignton and Totnes? ☐ minutes

b) How long does the bus wait at Plymouth? ☐ minutes

Solutions for the assessment YR5 Key Objectives - Measures, Geometry and Data

1) 24 km = 15 miles   35 miles = 56 km

3 m = 120 inches   160 inches = 4 m

7 feet = 210 cm   120 cm = 4 feet

12 inches = 30 cm   50 cm = 20 inches

2) 40 kg = 88 lb   11 lb = 5 kg

3) 12 gallons = 54 litres   63 litres = 14 gallons

16 litres = 28 pints   14 pints = 8 litres

4) Perimeter = 44 cm

5) Perimeter = 38 cm

6) Perimeter = 36 cm

7) Area = 9 cm^2

8) Area = 24 m^2

9) Area is about 10 unit squares

10) x = 10 cm
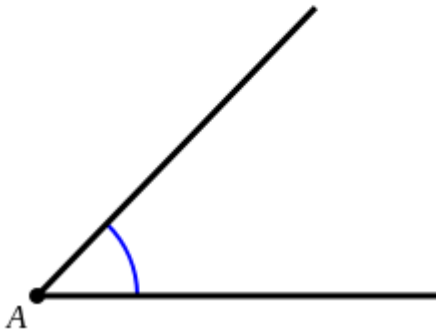
11) x = 2 cm

12) 4, 1, no

4, 0, no

4, 0, no

13) 1 B, 2 A, 3 D, 4 C

14) angle = 74 °

15) obtuse

16) acute

17)
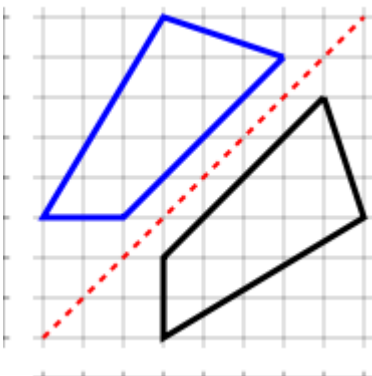

18) 1 D, 2 B, 3 A, 4 C

19) $x = 120°$

20) $c = 68°$

21)

22)

23)

24)

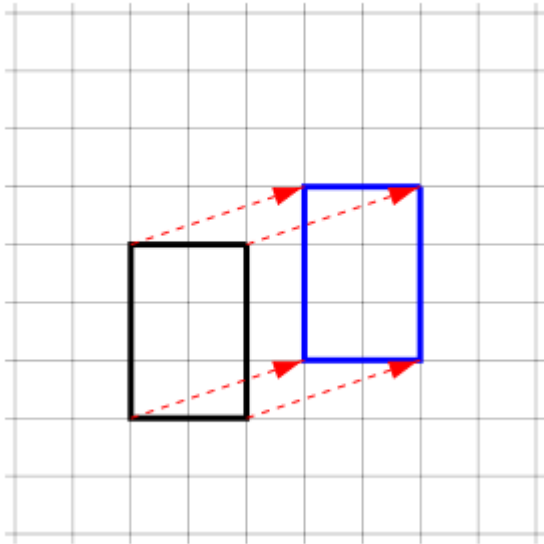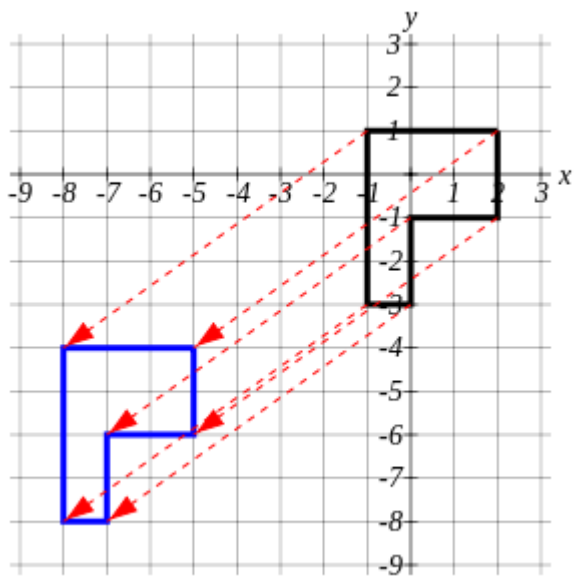**25)** 5,3,5,3,3,2

26) a) 29 minutes, b) 5 minutes