Materials for assessing adult numeracy

read·write·plus

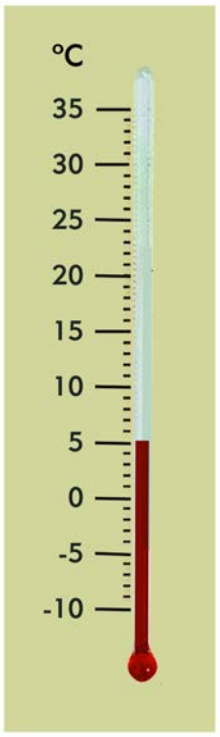
department for
education and skills
creating opportunity, releasing potential, achieving excellence

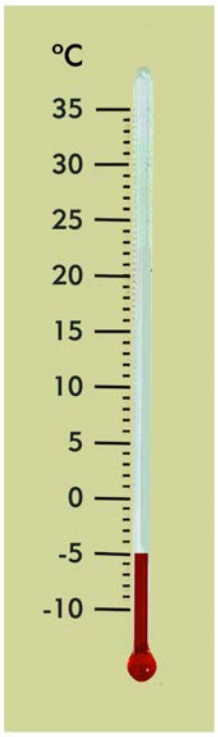
1 Write this number in figures.
Two hundred and seventy two thousand four hundred and twenty nine.

2 In which of these numbers is the 7 worth seventy?
Write the number in the box.

472 407 703

3 Tick the box to show which of these temperatures is below freezing.





4 A car shows 99 690 on the clock.
Round this up or down to the nearest thousand.

5 **Make a rough estimate. What roughly is the total length of 9 fence panels each measuring 1.9m?**

Estimate ____ m

6 **Estimate the cost of 15 pencils at 9p each.**

£ _____. _____

TOTAL

1 Work your way through the next 4 questions.
Write your answers in the boxes.

$492 + 16 + 4003 =$ ☐

2 $2600 - 128 =$ ☐

3 $459 \times 16 =$ ☐

4 $4530 \div 15 =$ ☐

5 These are the attendance figures for 3 concerts.
How many people came altogether?

2940 3007 4139

☐ people

6 A tank holds 5000 litres of oil. If 710 litres are used, how much oil is left in the tank?

☐ litres

7 A sack of flour weighs 45 kilos. How much do 7 sacks weigh?

kg

8 A rope 160m in length is cut into 5 equal lengths. How long is each length of rope?

m

9 A case of mineral water contains 180 bottles. How many bottles in 10 cases?

bottles

10 A length of roofing felt is 7000cm. If it is cut into 100 equal pieces, what is the length of each piece?

cm

TOTAL

1 One litre of weedkiller is mixed in a ratio of 1:3 with water.
How many litres altogether?

litres

2 £125 is shared in the ratio of 4:1. What is the larger share?

£

3 In a recipe you need 3 eggs for every 250g of flour.
How many eggs do you need for 750g of flour?

eggs

4 Two identical rugs cost £500 in total. How much do 3 cost?

£

TOTAL

1 Write in the missing fraction.

$\frac{5}{16} + \frac{4}{16} + \frac{\square}{16} = 1$

2 Tick the fraction that is the same as $\frac{1}{4}$.

$\frac{3}{4}$ ☐ $\frac{4}{16}$ ☐ $\frac{4}{12}$ ☐ $\frac{3}{6}$ ☐

3 Tick the biggest fraction.

$\frac{1}{4}$ ☐ $\frac{1}{16}$ ☐ $\frac{1}{3}$ ☐ $\frac{1}{8}$ ☐

4 Tick the fraction that is the same as $2\frac{1}{3}$.

$\frac{6}{3}$ ☐ $\frac{5}{3}$ ☐ $\frac{3}{5}$ ☐ $\frac{7}{3}$ ☐

5 What is $\frac{1}{5}$ of 25?

6 Find $\frac{2}{5}$ of 30.

7 What is $\frac{2}{3}$ of 18?

8 John saved £60. He spent $\frac{3}{5}$ of it on a new bag.
How much did the bag cost?

£

9 Tick the fraction that is the same as 50%.

$\frac{1}{4}$ ☐ $\frac{3}{4}$ ☐ $\frac{1}{2}$ ☐ $\frac{1}{5}$ ☐

10 Tick the decimal fraction that is the same as $\frac{1}{4}$.

0.25 ☐ 0.75 ☐ 0.50 ☐

TOTAL

1 Put these in order, starting with the biggest first.

0.002 0.02 0.200

1. 2. 3.

2 Put these decimals in the correct order, starting with the smallest first.

0.03 0.003 0.033

1. 2. 3.

3 Write your answer in the box.

0.89 + 190 + 44.6 =

4 Write your answer in the box.

£123.00 − £87.89 = £

5 Write your answer in the box.

181.32 × 6 =

6 Write your answer in the box.

£1044.32 ÷ 8 = £

7 Find the total weight of these 4 bags of sand.

43.3 kg 47.07 kg 43.11 kg 47 kg

kg

8 A car petrol tank holds 50.5 litres. 14.7 litres of petrol have been used. How much is left in the tank?

litres

9 Book shelves are 2.75m long. What is the length of 9 shelves?

m

10 What is 10.3 × 100?

11 What is 2.61 × 10?

12 Round this number up or down to the nearest whole number.

3.56

13 Round this number up or down to 1 decimal place.

4.47

14 Round this number up or down to 2 decimal places.

15.334

TOTAL

1 Tom has paid 75% of the cost of his car. What percentage is left to pay?

%

2 Tom earns £100 a week and has a pay rise of 10%. Pat earns £300 a week and has a pay rise of 5%. Who had the bigger increase?

Tom ☐

Pat ☐

3 Find 10% of £90.

£

4 Find 20% of £4.50.

£

5 In a sale, a table costing £160 is reduced in price by 25%.
What is the new price?

£

6 Petrol costing 80p a litre has a price increase of 20%.
What is the cost per litre now?

p

TOTAL

*Call your tutor before you do this task.

Use your calculator to work these out. Write your answer in the shaded box.

1 **Show your answer to 2 decimal places.**

$3 \div 7 =$ ☐

2 **Find $\frac{1}{3}$ as a decimal, to 2 decimal places.**

$\frac{1}{3} =$ ☐

3 **Find $\frac{3}{5}$ of £55.00.**

£ ☐

4 **Find 30% of £3990.00. Work this out using the percent key on the calculator. Write your answer in the box.**

£ ☐

5 **Find 20% of 650g using the percent key. Write your answer in the box.**

☐ g

TOTAL

** A calculator can be used only for this section.*

1 A builder buys these items at a builders' merchants. What is the total cost?

£

2 Tim owes P&Q DIY stores £1473.50.
He pays a cheque for £1973.09 by mistake.
How much has he overpaid?

£

3 Molly buys 15 tins of paint at £11.55 each.
How much is this altogether?

£

4 Molly buys 12 rolls of wallpaper for £111.00.
How much is 1 roll of wallpaper?

£

TOTAL

1 Write the date for the **first Tuesday** in this month.

___ / ___ / ___

October 2001

M	T	W	T	F	S	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

2 Which day of the week is 15/10/01? Tick the correct answer.

- Monday ☐
- Tuesday ☐
- Wednesday ☐
- Thursday ☐
- Friday ☐
- Saturday ☐
- Sunday ☐

3 You are on the platform in Crewe at 2.30p.m. What time is the next train to Derby?

Train Timetable	
Crewe	Derby
Depart	Arrive
1130	1240
1300	1414
1500	1609

4 You are in Crewe and you need to be in Derby in time for an appointment at 1.00pm. What time do you need to catch the train?

Train Timetable	
Crewe	Derby
Depart	Arrive
1130	1240
1300	1414
1500	1609

5

The flower shop closes at this time in the afternoon. Write the time using the 24-hour clock.

6 Write the time shown on this digital clock using the 12-hour clock.

7 Fred starts work at 0600 and finishes at 1415. How long is his shift?

_____ hours _____ minutes

8 Kara works an extra 130 minutes over her normal shift time.
How many hours and minutes is this?

_____ hours _____ minutes

9 Sunita is on duty from 1155 to 2010 each day for 5 days.
How many hours does she work altogether?

_____ hours _____ minutes

10 A TV programme starts at 7.55pm and finishes at 9.50pm.
How long does it last?

_____ hours _____ minutes

11 This is Kara's time sheet for one week. Fill it in to show the number of hours and minutes she has worked each day and the total hours and minutes she has worked for the week.

Time sheet: hours worked			
Day	*Time started*	*Time finished*	*Hours worked*
Mon	0830	1615	
Tues	1020	1250	
Wed	0700	1530	
Thurs	0830	1900	
Fri	_____	_____	
		Total hours worked	

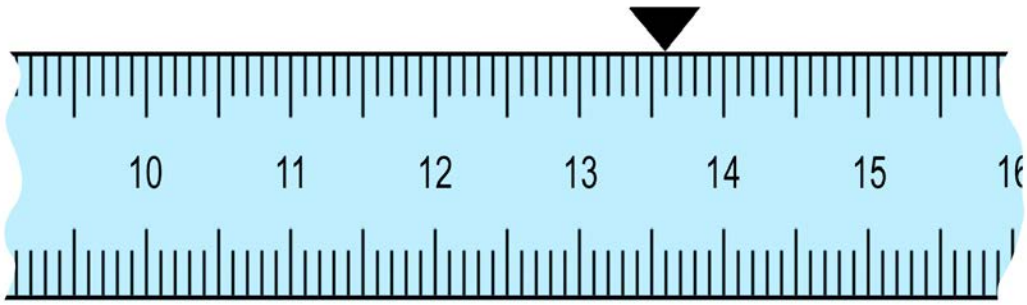
TOTAL

1 Draw a line on this jug to show 0.35 litres.

2 Tick the 2 jugs that have the same amount of water.

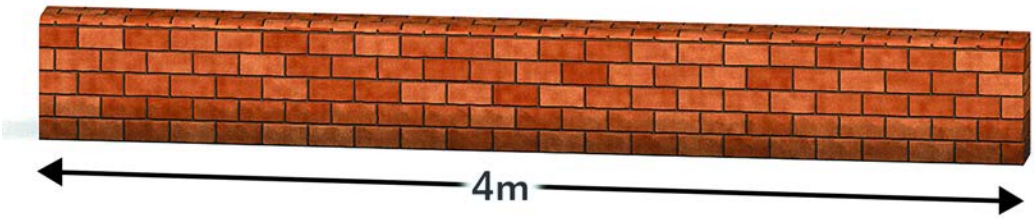
☐ ☐ ☐

3 This ruler is labelled in cm. What is the measurement shown in mm?



mm

4 This garden wall is drawn to scale. Estimate the height of the wall in metres.

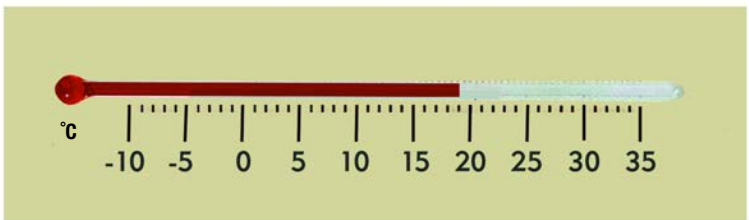


m

5 Write the weight of this parcel in kilograms.

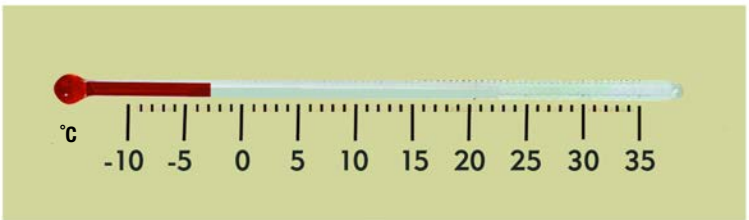
kg

6 Write down the temperature shown on this thermometer.



°C

7 Write down the temperature shown on this thermometer.



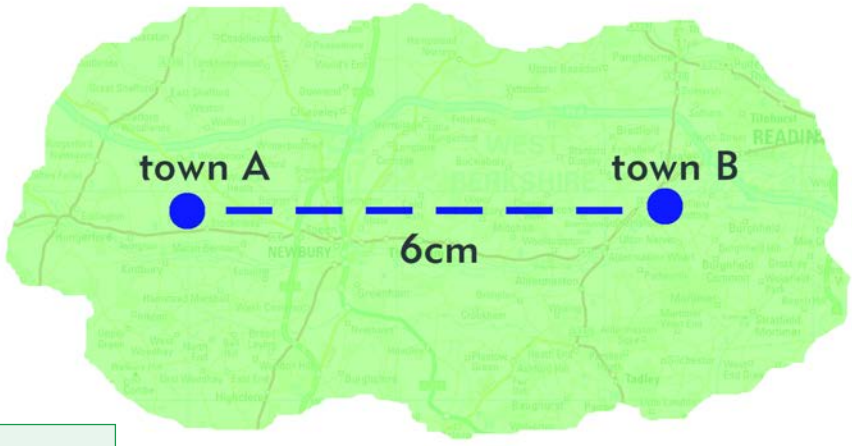
°C

8 Colin lives in Manchester. How far does he have to drive to get to York?

Birmingham	120				
Manchester	203	88			
Glasgow	413	298	220		
Oxford	57	68	161	371	
York	212	134	71	216	184
	London	Birmingham	Manchester	Glasgow	Oxford

miles

9 How far is it from town A to town B?



km

scale: 1cm = 12km

10 On four separate days Tom travelled 147km, 160km, 275km and 177km. How far did he travel altogether?

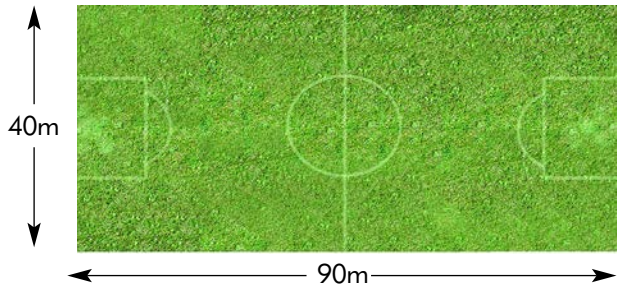
km

11 The milometer reading on a car on 1st August was 77439.3. On 31st August it was 82312.2. How many miles did the car travel in August?

miles

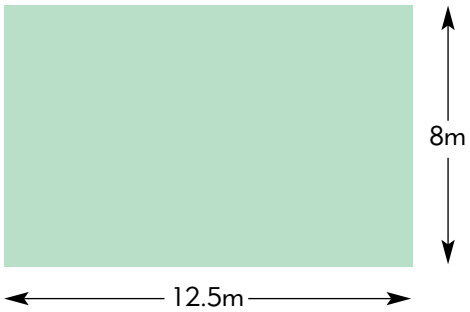
TOTAL

1 What is the perimeter of the football pitch?



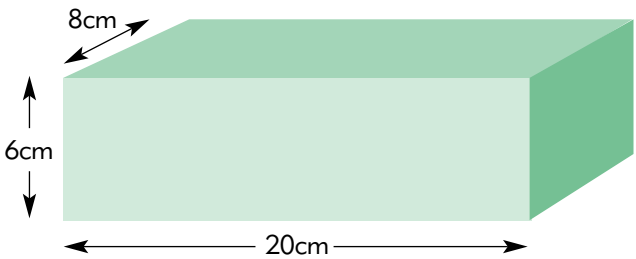
m

2 What is the area of this room?



m^2

3 What is the volume of this container?

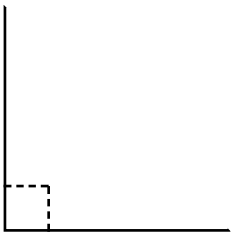


cm^3

TOTAL

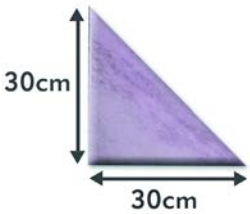
1 This is a right angle.

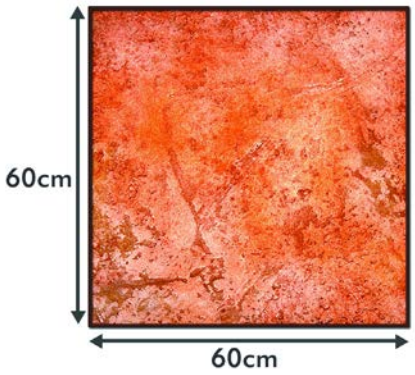
How many degrees in this angle?



°

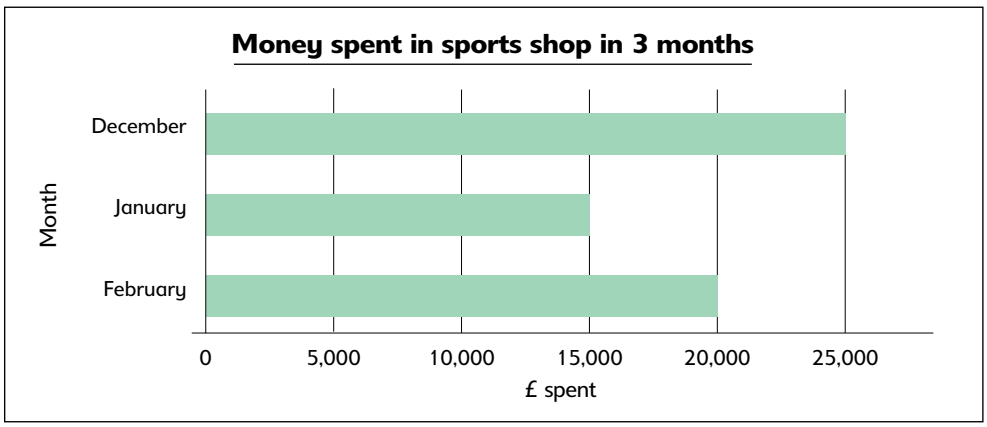
2 How many of these triangular tiles will fit into the rectangle?





TOTAL

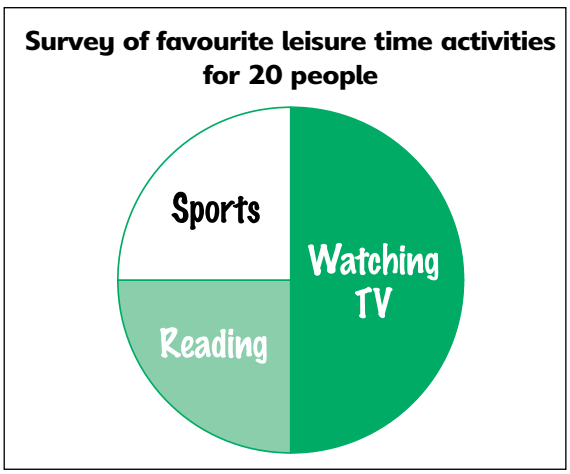
1 This bar chart shows the amount of money spent in a sports shop in a three month period. In which month were most goods sold?



2 Look at the bar chart above. How much money was taken in January?

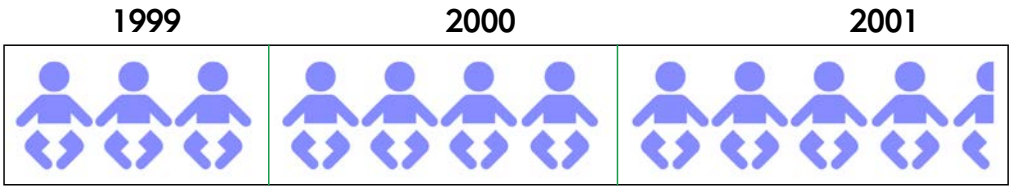
£

3 This pie chart shows survey results from 20 people about their favourite way of spending their leisure time. How many people like watching TV best?



4 What fraction like reading best of all?

5 This pictogram shows how many babies were born in a city from 1999-2001. How many babies were born in 2000?



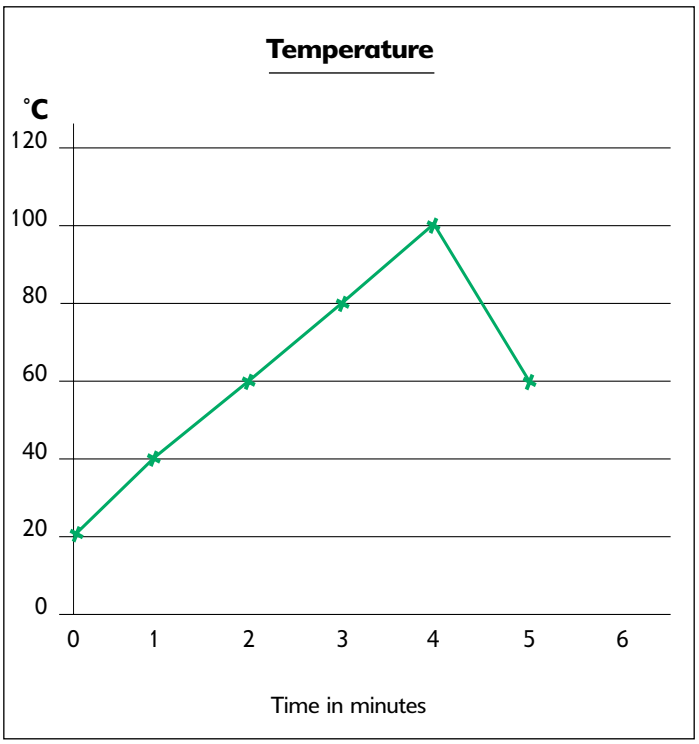
Key:
= 500 babies

6 How many babies were born altogether from 1999 to 2001?

7 This line graph shows how long it takes a kettle of water to heat to boiling point – 100°C.

How long does it take for the water to boil?

mins



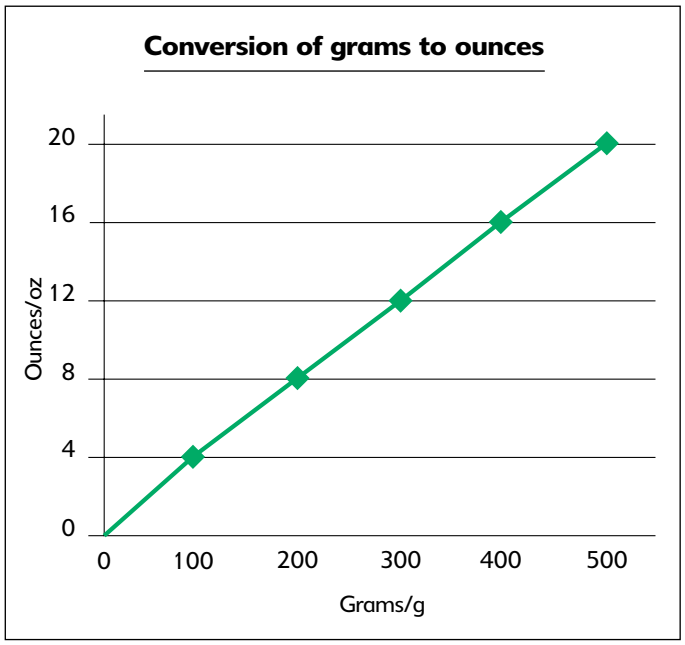
8 What is the temperature of the water after it has been heating for 2 minutes?

°C

9 You can use this graph to find an approximate conversion of ounces to grams and grams to ounces.

How many ounces in 300g?

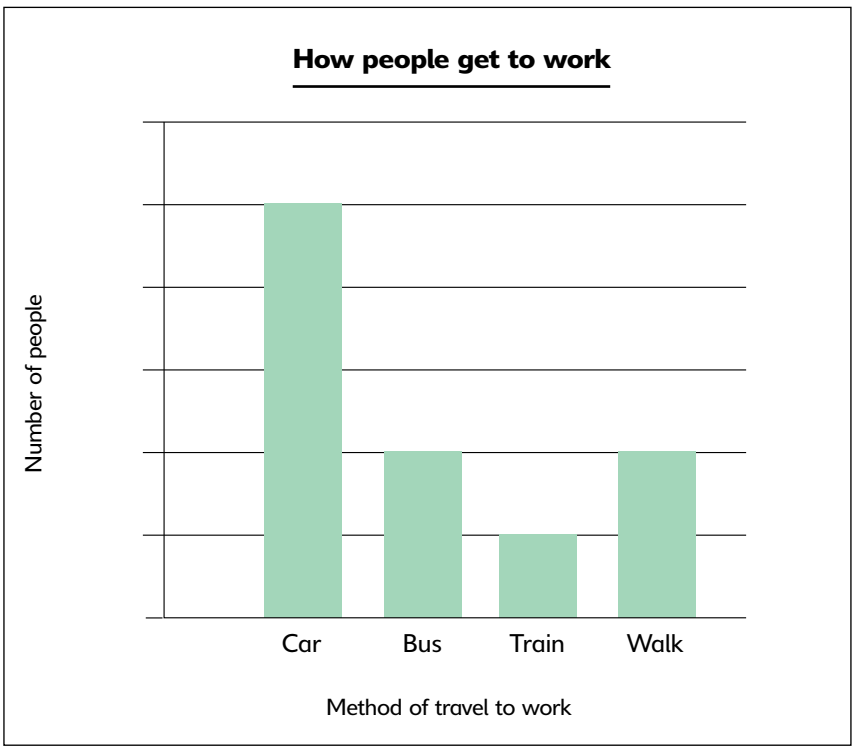
oz



10 How many grams in 20oz?

g

11 This graph shows data about how 100 people travel to work. 50 travel by car, 20 by bus, 10 by train and 20 walk to work. Complete the graph by putting the correct scale on the vertical axis.



TOTAL

1 A football team scored 15 goals in 5 games.
What was the mean (or average) rate of scoring per game?

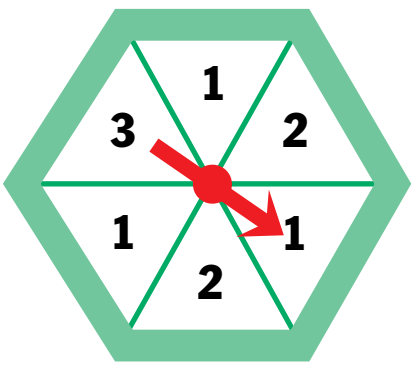
2 What is the range of highest daily temperatures? Tick the correct answer.

a. 23°C
b. 22°C – 23°C
c. 20°C
d. 17°C – 23°C
e. 6°C

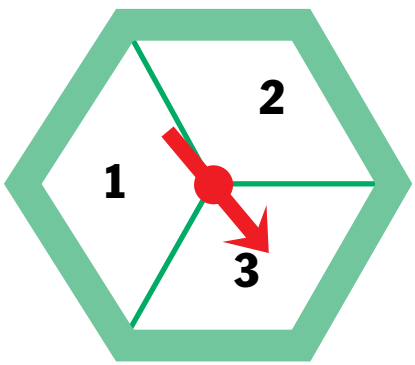
Highest daily temperature	
Mon	22°C
Tues	18°C
Wed	19°C
Thurs	19°C
Fri	23°C
Sat	17°C
Sun	22°C

3 Here are two spinners, A and B. Read the statement and put a tick (✔) if it is true and a cross (✘) if it is not true.

Scoring 1 is more likely on A than on B.



A



B

4 What is the chance of 1 being thrown on the dice?

1 in 6 chance ☐

1 in 5 chance ☐

1 in 7 chance ☐

5 On a scale of probability, 0 is impossible and 1 is certain. What number would you put for the statement that babies are either boys or girls? Tick the correct box.

0 ☐

1 ☐

0.5 ☐

TOTAL

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