

- 1 Farmer Morris is spraying his crops with pesticide. If he needs 10ml of pesticide for each square metre, how many litres will he need to spray 1,000m²?

A	B	C	D	E
10 litres	100 litres	1 litre	1000 litres	10000 litres

- 2 At the end of a concert, every 5 minutes 125 fans leave the arena via eight separate exits. If there were 20,000 fans at the concert, how long does it take for the arena to empty?

A	B	C	D	E
30 minutes	45 minutes	100 minutes	90 minutes	120 minutes

- 3 The height of the Shard in London is three times taller than Big Ben. Big Ben is 102 metres tall. How tall is the Shard?

A	B	C	D	E
303 metres	318 metres	318 metres	301 metres	306 metres

- 4 The temperature of a liquid in a chemistry experiment is -6°C . If the temperature is increasing at the rate of 2°C per minute, what will the temperature of the liquid be after 10 minutes?

A	B	C	D	E
12°C	11°C	15°C	14°C	13°C

- 5 It takes 4 men 128 hours to erect the scaffolding for a large building project. How many hours would it take 16 men to do the same job if they work at the same speed?

A	B	C	D	E
64 hours	32 hours	16 hours	60 hours	48 hours

- 6 A wheel rotates at a speed of 6,000 revolutions in 5 minutes.

How many complete turns does it make in 1 minute?

A	B	C	D	E
1,800	1,200	72,000	2,400	3,000

- 7 Some small toy cars are packed into boxes whose volume is 120cm^3 . There are 500 boxes.

The small boxes are then packed into larger packing boxes with a volume of $1,200\text{cm}^3$.

How many larger packing boxes are needed?

A	B	C	D	E
40 boxes	500 boxes	50 boxes	75 boxes	200 boxes

- 8 If you lose a half of a quarter of all your money, what fraction of your money do you have left?

A	B	C	D	E
$\frac{2}{3}$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{1}{8}$	$\frac{7}{8}$

- 9 Peter lives three and a half times further away from Bristol than his friend, Tony.

If Tony lives 12 miles away from Bristol, how far from Bristol does Peter live?

A	B	C	D	E
42 miles	36 miles	38 miles	45 miles	48 miles

- 10 Sue is going on holiday to Spain so she decides to change £500 into Euros.

If the exchange rate is £1 = €1.20. How many Euros will she receive?

A	B	C	D	E
€560	€600	€640	€720	€570

A	B	C	D	E	F	G	H	I	J
Belgium	Luxemburg	Germany	Poland	Slovakia	Hungary	Austria	France	Spain	Portugal

Country	Mean Temperature	Number of Nights	Number of Attractions	Euros spent
Belgium	20°C	1 night	2	€70
Luxemburg	21°C	1 night	3	€120
Germany	20°C	4 nights	6	€180
Poland	21°C	3 nights	7	€240
Slovakia	24°C	2 nights	3	€165
Hungary	23°C	3 nights	4	€230
Austria	26°C	3 nights	3	€130
France	18°C	2 nights	4	€168
Spain	39°C	5 nights	5	€300
Portugal	37°C	3 nights	4	€270

Four friends go on a railway holiday around Europe. The table above shows which countries they visit and the details of the holiday.

Information £1 Pound = €1.2 Euros

- 1 In which country did the girls spend the equivalent of £100?
- 2 In which country was the mean temperature under 20°C?
- 3 In which country did the friends spend the equivalent of £150?
- 4 In which country did the girls spend the equivalent of £200?

Odd One Out

1

A	B	C	D
barrel	flask	punnet	bottle

2

A	B	C	D
artistic	cunning	sly	artful

3

A	B	C	D
thumb	number	digit	figure

4

A	B	C	D
urge	prompt	punctual	timely

5

A	B	C	D
cautious	cagey	enclosed	wary

6

A	B	C	D
process	proceed	progress	advance

7

A	B	C	D
hurricane	avalanche	tornado	gale

8

A	B	C	D
idea	consider	concept	thought

Odd One Out

9

A	B	C	D
peril	chance	jeopardy	danger

10

A	B	C	D
prism	kite	parallelogram	diamond

11

A	B	C	D
real	eccentric	genuine	authentic

12

A	B	C	D
meander	wander	weary	roam

13

A	B	C	D
pacify	placate	calm	agitate

14

A	B	C	D
adore	sympathise	love	cherish

15

A	B	C	D
envy	crave	desire	yearn

16

A	B	C	D
excuse	release	forgive	pardon

Synonyms

1 yearly

A	B	C	D	E
seldom	rarely	annually	anniversary	birthday

2 vanquish

A	B	C	D	E
march	frustrate	whip	conquer	reduce

3 anthem

A	B	C	D	E
music	choir	lyric	hymn	concert

4 spherical

A	B	C	D	E
cylindrical	turn	rotate	clockwise	round

5 immediate

A	B	C	D	E
insane	insolent	instant	inspired	insecure

6 unearth

A	B	C	D	E
explore	bury	discover	search	drill

7 blend

A	B	C	D	E
mingling	type	smooth	brew	mix

8 fleet

A	B	C	D	E
speed	rapid	ready	prompt	express

9 bewilder

A	B	C	D	E
distract	embarrass	excite	dumbfound	overwhelm

10 vaulted

A	B	C	D	E
parachuted	bounced	hopped	jumped	hung

Antonyms

1 **abound**

A	B	C	D	E
arise	circle	tumble	course	lack

2 **economical**

A	B	C	D	E
rich	bizarre	extravagant	precious	sophisticated

3 **please**

A	B	C	D	E
deny	behave	critical	struggle	offend

4 **meeting**

A	B	C	D	E
ending	entrance	approach	arriving	parting

5 **tardy**

A	B	C	D	E
lazy	steady	active	punctual	quick

6 **foreigner**

A	B	C	D	E
outsider	tourist	alien	native	villager

7 **ally**

A	B	C	D	E
colleague	opponent	contestant	associate	attendant

8 **originate**

A	B	C	D	E
finale	deadline	edge	conclusion	end

9 **cause**

A	B	C	D	E
origin	motive	sequence	effect	question

10 **scanty**

A	B	C	D	E
plentiful	spare	free	liberal	rich

Antonym pairs to learn.

Ants 9 misery	Ants 9 contentment	Ants 9 volatile	Ants 9 calm
Ants 9 dishevelled	Ants 9 tidy	Ants 9 understate	Ants 9 exaggerate
Ants 9 lenient	Ants 9 strict	Ants 9 makeshift	Ants 9 permanent
Ants 9 wobbly	Ants 9 stable	Ants 9 abrupt	Ants 9 gradual
Ants 9 jagged	Ants 9 smooth	Ants 9 knowledge	Ants 9 ignorance
Ants 9 abhor	Ants 9 love	Ants 9 vanish	Ants 9 materialise
Ants 9 jovial	Ants 9 miserable	Ants 9 needless	Ants 9 necessary
Ants 9 blameless	Ants 9 guilty	Ants 9 withhold	Ants 9 release
Ants 9 scarcity	Ants 9 abundance	Ants 9 blossom	Ants 9 wither

Answers

Maths 1

1	A
2	C
3	E
4	D
5	B
6	B
7	C
8	E
9	A
10	B

Maths 3

1	B
2	H
3	C
4	D

Odd One Out

1	C	The rest hold liquids
2	A	The rest mean cunning
3	A	The rest mean a number
4	A	The rest mean 'on time'
5	C	The rest mean to be careful
6	A	The rest mean to 'move forward'
7	B	The rest are all to do with wind
8	B	The rest are synonyms for 'idea'
9	B	The rest mean danger
10	A	The rest are 2D shapes
11	B	The rest mean real
12	C	The rest mean 'to wander around'
13	D	The rest mean 'to calm'
14	B	The rest mean 'to love'
15	A	The rest mean to want something
16	B	The rest mean to forgive

Synonyms

1	C
2	D
3	D
4	E
5	C
6	C
7	E
8	B
9	D
10	D

Antonyms

1	E
2	C
3	E
4	E
5	D
6	D
7	B
8	E
9	D
10	A