

- 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.

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

Answers

Maths 1

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

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

Maths 3

1	B
2	H
3	C
4	D

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