

Instructions

For each question, work out the correct answer.

Mark your answer on the answer sheet by choosing one of the options A–E.

Example i

7 apples cost a total of 49 pence. What is the cost of 14 apples?

A	B	C	D	E
7 pence	11 pence	18 pence	98 pence	49 pence

The answer is D, 98 pence. The answer D has been marked for you on the answer sheet.



You have 15 minutes for this section.



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1 Which of these calculations results in an odd number?

A	B	C	D	E
36×48	18^2	$5077 - 611$	25^3	4^3

2 Dev has 100 free texts to use on his phone this week. Dev is busy on Sunday and Monday and fails to send any texts. Dev sends 17 texts on Tuesday and 27 texts on Wednesday. On Thursday, Dev sends 5 texts less than he did on Tuesday. Dev sends the same number of texts on Saturday as on Friday. At the end of the week, Dev has an allowance of 2 free texts left. How many texts did Dev send on Saturday?

A	B	C	D	E
21	22	23	24	25

3 A shopkeeper wants to put a sign in his window that says: **Food on the Go**. It costs £15 per capital letter and £10 per lower-case letter to create a sign. How much will it cost to create the shopkeeper's sign?

A	B	C	D	E
£100	£105	£110	£115	£120

4 Mrs Clark wants to make sandwiches for her 3 children's school lunches. Mrs Clark needs to order bread so she has enough for Monday to Friday. The youngest child eats 2 pieces of bread each day. The older children each eat 4 pieces of bread daily. If there are 12 pieces of bread in each loaf, how many loaves does Mrs Clark need to purchase for the week's sandwiches?

A	B	C	D	E
4	5	6	7	8

- 5** I think of a number N . I double it and add 2. This is the same as multiplying the number by 4 and subtracting 6. What is my number N ?

A	B	C	D	E
1	2	3	4	5

- 6** A car alarm flashes once every 4 seconds. How many times will it flash in 1 hour?

A	B	C	D	E
90	900	240	3600	150

- 7** A business sells glitter pens to shops around the world. There are 8 glitter pens in each pack. 100 packs of pens are put into each box. Boxes are then loaded into crates for shipping. If one crate holds 240,000 pens, how many boxes are in each crate?

A	B	C	D	E
30	90	200	300	3000

- 8** A shop has a coffee machine that must be serviced after it has made 10,000 cups. The shop sells 125 cups of coffee per day. After how many days will the coffee machine have to be serviced?

A	B	C	D	E
40	50	60	70	80

- 9** Jim is saving for a bike that costs £199. Jim saves £58 in the first month by doing some chores. Jim saves £63 in the second month thanks to birthday gifts. How much more money does Jim need to purchase the bike?

A	B	C	D	E
£78	£79	£80	£81	£82



- 10** Tom uses a hose to fill a paddling pool that holds 180 litres of water. The hose supplies 2.5 litres of water every second. How long will it take Tom to fill up the paddling pool?

A	B	C	D	E
60 seconds	64 seconds	68 seconds	72 seconds	76 seconds

This pictogram shows how many trees were planted in a park from 2010 to 2015. Use this pictogram to answer questions 11–13.

2010	
2011	
2012	
2013	
2014	
2015	

Key:

- represents 10 trees
- represents 5 trees
- represents 1 tree

- 11** How many trees were planted in 2012?

A	B	C	D	E
40	15	28	41	44

- 12** How many more trees were planted in 2011 than in 2010?

A	B	C	D	E
12	14	16	18	20

- 13** One-third of the trees planted in 2013 and 2014 died due to a drought. How many of the trees planted in 2013 and 2014 survived the drought?

A	B	C	D	E
24	25	26	27	30



- 14** Anna is watching a film that lasts for 1 hour 40 minutes. The film started at 1:55p.m. During the film, Anna looks at her watch and it reads 2:40p.m. How many more minutes of the film are there left to watch?

A	B	C	D	E
45 minutes	50 minutes	55 minutes	60 minutes	65 minutes

- 15** Liam buys 3 T-shirts for £3.75 each. How much change will Liam receive from £15?

A	B	C	D	E
£2.75	£3.75	£2.25	£3.25	£2.85

- 16** This table shows how many girls and boys in a class can swim. Some of the numbers in the table are missing.

	Girls	Boys	Total
Can swim		10	
Cannot swim	7		
Total	12		30

How many boys cannot swim?

A	B	C	D	E
8	9	6	7	0

- 17** Mrs Derby wants to buy tiles to cover a 5m × 4m floor. Each tile measures 50cm × 50cm. How many tiles will Mrs Derby need to cover the floor?

A	B	C	D	E
40	60	80	100	120



- 18** A playgroup has a number of tricycles and bicycles. The sum of the wheels is 60 and the sum of the saddles is 24. How many tricycles does the playgroup own?

A	B	C	D	E
18	16	15	14	12

- 19** Raj has an equal number of 1p and 5p coins. Raj's coins add up to £2.16. How many 1p coins does Raj have?

A	B	C	D	E
26	42	38	36	44

- 20** Lucas has his eye on a pair of trainers that cost £96. One day, the price of everything in the shop is reduced by one-third. What is the new sale price of the trainers?

A	B	C	D	E
£32	£64	£48	£73	£128

- 21** One angle of a triangle is 39° . The second angle measures 67° . What is the size of the third angle?

A	B	C	D	E
86°	74°	68°	64°	254°

- 22** Faith achieves a time of 25 minutes for her first park run. Faith knocks 10% off that time the following week. In the third week, Faith knocks 10% off her most recent time again. What was Faith's time in the third week?

A	B	C	D	E
20 minutes & 25 seconds	20 minutes & 20 seconds	20 minutes & 15 seconds	15 minutes & 30 seconds	20 minutes



- 23** Whether X is rounded to the nearest 10, 50, 100, or 1000, the answer is always the same. What is the value of X ?

A	B	C	D	E
60	98	995	1007	10,005

- 24** Lars scored 75% in a spelling test. Lars got 7 questions wrong. How many questions were in the spelling test?

A	B	C	D	E
28	100	21	30	24

- 25** Three red balls and a blue ball weigh 1.35kg in total. If the red balls each weigh 200g, what is the weight of the blue ball?

A	B	C	D	E
1150g	705g	500g	650g	750g

- 26** Three children count up the number of letters in their first names. They work out that the mean number of letters in their first names is 5. Sebastian joins the group and the mean is recalculated. What is the new mean number of letters in the first names of the four children?

A	B	C	D	E
3	4	5	6	7

