Section A

1. Work out 1449 ÷ 23.

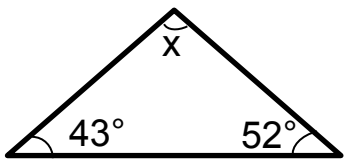
A	65	B	63	C	71	D	76	E	69

2. Which of the following numbers has the largest value?

0.6 0.0061 0.601 0.061 0.6001

A	0.6	B	0.061	C	0.6001	D	0.601	E	0.0061

3. Calculate the angle marked with the letter x.



A	70°	B	85°	C	90°	D	75°	E	60°

4. What is 0.78 as a percentage?

A	7.8%	B	78%	C	0.78%	D	780%	E	0.078%

5. The number of letters in the word PASTE that have line symmetry is

A	5	B	4	C	3	D	2	E	1

6. Eleven pencils cost £4.95. How much would seven pencils cost?

A	£3.50	B	£3.20	C	£4.00	D	£3.15	E	£4.15

7. Here is a list of numbers.
5, 8, 9, 11, 12, 13, 17, 18, 20

7. (a) Which numbers in the list are factors of 40?

A	12,13,18	B	17,18	C	12,13,17	D	9,11,12	E	5,8,20

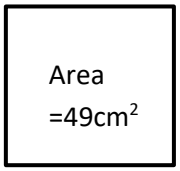
7. (b) How many of the numbers in the list are multiples of 3?

A	0	B	1	C	2	D	3	E	4

8. Change 45% to a fraction in its simplest form.

A	$\frac{19}{25}$	B	$\frac{35}{50}$	C	$\frac{75}{100}$	D	$\frac{9}{20}$	E	$\frac{1}{4}$

9. Find the perimeter of this square.



A	49cm	B	98cm	C	28cm	D	20cm	E	14cm

10. Find the value of 89.1 – 36.55

A	52.45	B	53.55	C	53.45	D	52.65	E	52.55

11. How many seconds are there in a day?

A	3600	B	1400	C	1440	D	51,840	E	86,400

12. Find n if 126 ÷ n = 9

A	14	B	16	C	17	D	11	E	13

13. Simplify the expression 4c - 6d + 2c + 3d.

A	6c - 3d	B	15cd	C	2c + 9d	D	7c + 8d	E	6c – 9d

14. A bag contains 12 red, 17 blue, 10 orange and 21 black counters. You pick a counter without looking inside.

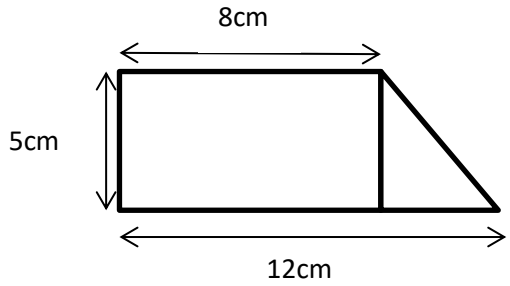
a) What is the probability that you select a red counter?

A	⅓	B	⅙	C	⅚	D	⅕	E	⅘

14. b) What is the probability that it is not an orange counter?

A	⅓	B	⅙	C	⅚	D	⅘	E	⅕

15. Calculate the area of the trapezium.



A	$50cm^2$	B	$44cm^2$	C	$40cm^2$	D	$42cm^2$	E	$48cm^2$

16. Convert 5300grams to kilograms.

A	0.053kg	B	0.53kg	C	530kg	D	5.3kg	E	53kg

17. 243, -81, 27, -9, ……., ...

What are the next two numbers in the sequence?

A	6, -1	B	-3, 1	C	3, -1	D	6, -3	E	-2, 1

18. I left home for school at 7.22am and arrived at 8.16am. How long did it take me to get to school?

A	58mins	B	1 hour and 4 mins	C	1 hour and 6 mins	D	38mins	E	54mins

19. The heights, in metres, of eleven children are

1.32, 1.47, 1.43, 1.32, 1.35, 1.46, 1.49, 1.32, 1.37, 1.49, 1.48

19. a) What is the mode height?

A	1.49	B	1.32	C	1.46	D	1.47	E	1.35

19. b) What is the median height?

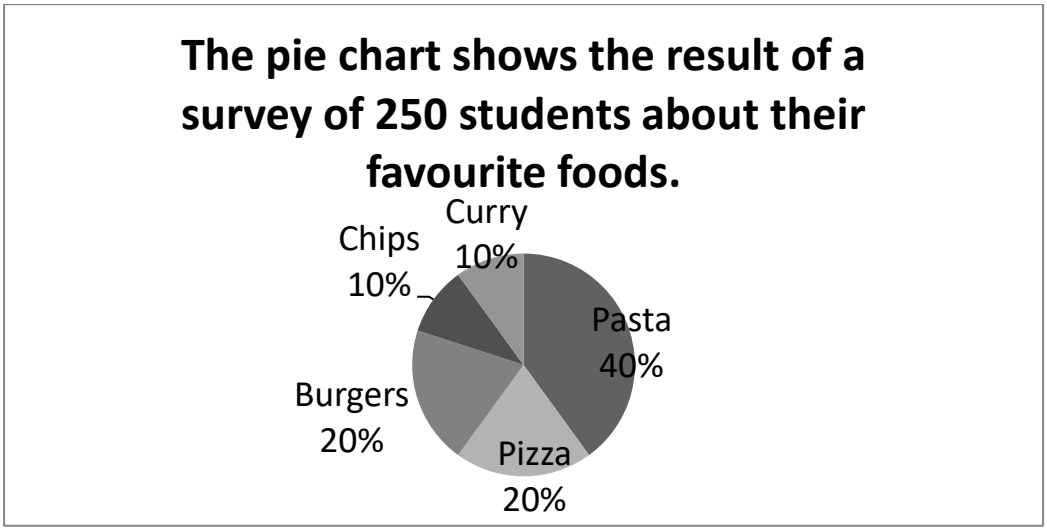
A	1.49	B	1.44	C	1.43	D	1.46	E	1.35

20. What is the value of

$1^2 \times 2^2 \times 3^2 \times 4^2$

A	36	B	100	C	72	D	576	E	10

21.



21. (a) How many students chose chips?

A	25	B	16	C	15	D	26	E	40

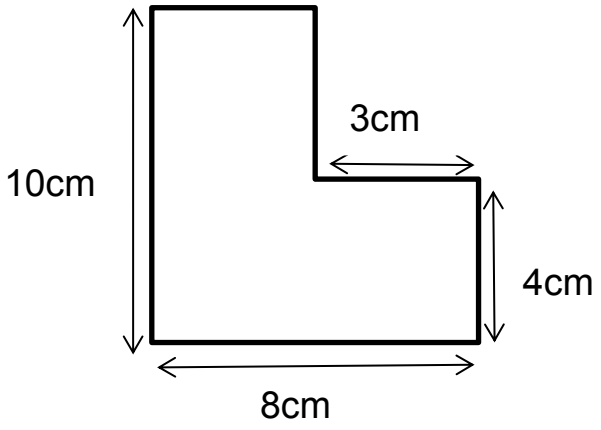
21. (b) What angle of the pie chart is represented by pizza?

A	10°	B	36°	C	72°	D	20°	E	30°

22. A roll of wallpaper is 10m long and 0.6m wide. How many rolls of wallpaper are needed to cover a wall 3m high and 8m wide?

A	5	B	4	C	7	D	10	E	11

23. Find the perimeter of the compound shape.



A	92cm	B	52cm	C	36cm	D	25cm	E	30cm

24. 0.6 x 7.12 =

A	4.272	B	42.2	C	0.472	D	21.6	E	2.16

25. $P = 9a - 7b^2$

Work out the value of P when a = 3 and b = -2

A	14	B	-169	C	3	D	55	E	-1

26. $\frac{3}{4} + 0.35$

A	$\frac{6}{5}$	B	$\frac{11}{10}$	C	$\frac{65}{4}$	D	$\frac{1}{10}$	E	$\frac{4}{5}$

27. It takes 5 teachers 9 hours to mark a set of examination papers. How long would it take for 12 teachers to mark the same set of examination papers?

A	3.75 hours	B	3.5 hours	C	21.6 hours	D	20.5 hours	E	4 hours

28. The mean of Jane's six Mathematics test is 89%. After her seventh test the mean increased to 90%. What did Jane score in her seventh test?

A	95%	B	89%	C	96%	D	90%	E	93%

End of Section A