

Test 19

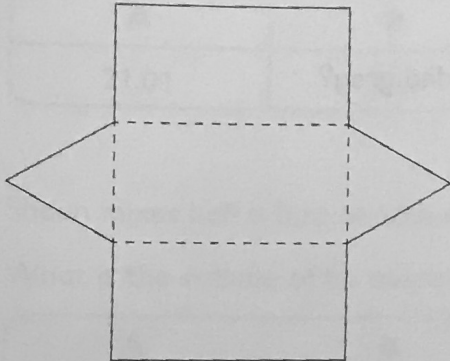
You have 10 minutes to complete this test.

You have 10 questions to complete within the given time.



Circle the letter next to the correct answer.

- ① Which 3D shape can be made from the net below?



A	Tetrahedron
B	Triangular prism
C	Triangular pyramid
D	Cuboid
E	Square-based pyramid

- ② What is the radius of a circle with a diameter of 5.28 m?

A	B	C	D	E
2.62 m	10.56 m	2.64 m	1.28 m	5.56 m

- ③ This formula shows how to calculate the weight of nuts (in grams) needed for a cookie recipe.

$$\frac{(\text{Weight of cookies in grams} \times \text{Radius of each cookie in centimetres})}{8}$$

What is the weight of nuts in grams for 600 g of cookies if each cookie has a radius of 3 cm?

A	B	C	D	E
225 g	200 g	132 g	150 g	350 g

4 What is the width of a rectangle with a length of 9 cm and a perimeter of 25 cm?

A	B	C	D	E
2.5 cm	20 cm	2 cm	3.5 cm	5 cm

5 This table shows the price per person for ski trips to different destinations.

Destination	Price
Deer Valley	£3855
Aspen	£3033
Park City	£2990
Jackson Hole	£2864
Sun Valley	£2846
Grand Castle	£2820

What is the median price per person for a ski trip?

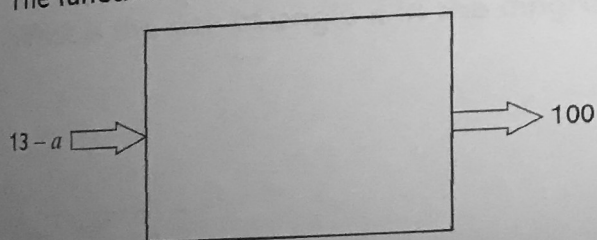
A	B	C	D	E
£2864	£2990	£2927	£2820	£3855

6 For every 8 adults on a boat, there are 5 children.

If there are 65 children on the boat, how many adults are there on the boat?

A	B	C	D	E
5	104	8	13	65

7 The function machine below squares the input number to produce the output number.



Which of the following is a possible value of a ?

A	B	C	D	E
10	5	3	2	7

Questions continue on next page

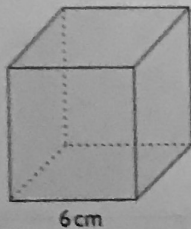
- 8 Which of these is greater than 40%?

A	B	C	D	E
0.38	$\frac{16}{50}$	$\frac{1}{20}$	$\frac{8}{25}$	$\frac{2}{3}$

- 9 Tara gives away 900 stamps. If 20% of her stamps remain, how many did she have in total prior to giving some away?

A	B	C	D	E
1125	1000	2400	1500	150

- 10 What is the total surface area of the cube below?



A	B	C	D	E
6 cm^2	12 cm^2	36 cm^2	216 cm^2	108 cm^2