Question 1

The shaded area on this grid, in square units, is closest to

15	18	20	21
A	B	C	D

Question 2

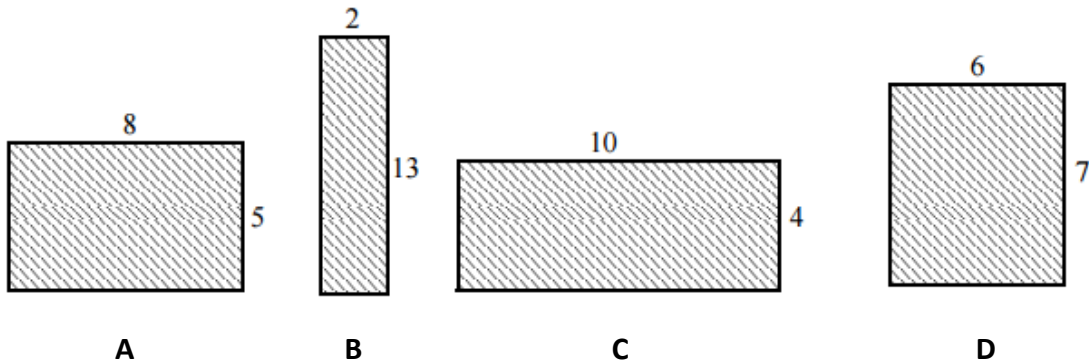Which shape has an area of 6 square units?

A   B   C   D
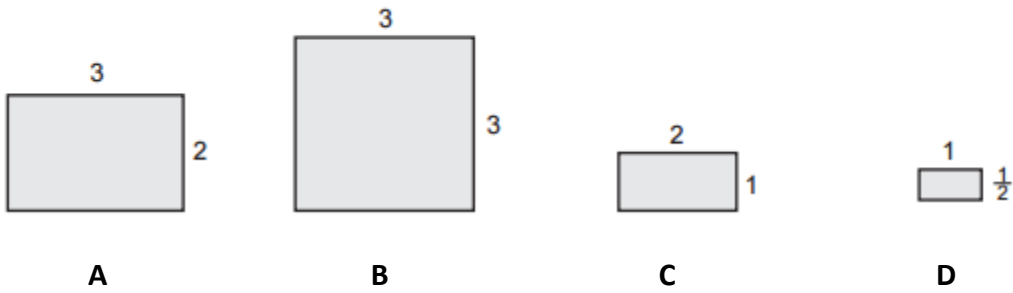
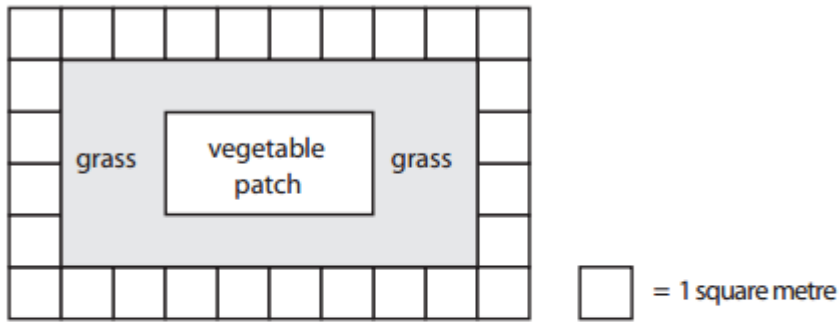**Question 3**

Which one of these rectangles has an area of 40 square units and a perimeter of 26 units?

A   B   C   D

Question 4

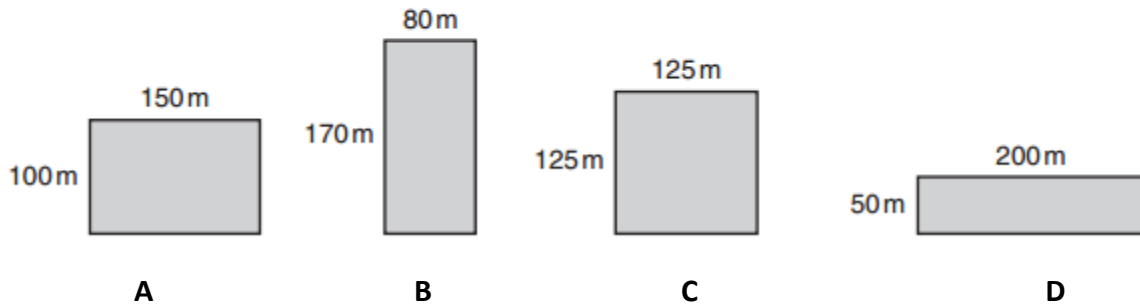This is a diagram of a garden.

□ = 1 square metre

What is the area of the vegetable patch?

A   4 square metres
B   8 square metres
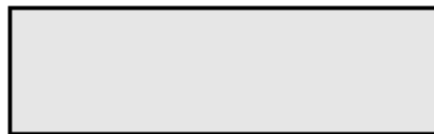C   16 square metres
D   32 square metres

Question 5

A farm has 4 paddocks.

Which paddock has the largest area?

A   B   C   D

Question 6

The area of this rectangle is 112 cm² and its width is 8 cm.
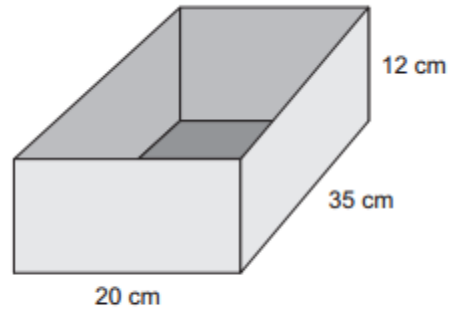

The perimeter of this rectangle

is....

A   14cm   B   22cm   C   44cm   D   56cm

Question 7

What area of cardboard is needed to make this open box?

12 cm

35 cm

20 cm

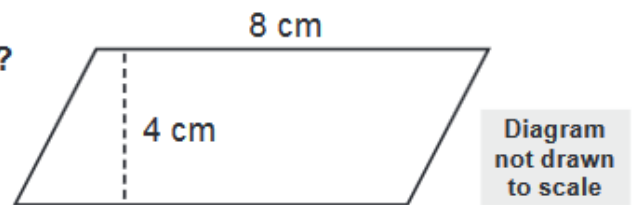| 1320 cm²	1360 cm²	2020 cm²	2720 cm²
A	B	C	D

Question 8

Which of these are always equal in length?

A   the opposite sides of a trapezium
B   the opposite sides of a parallelogram
C   the diagonals of a trapezium
D   the diagonals of a parallelogram

Question 9

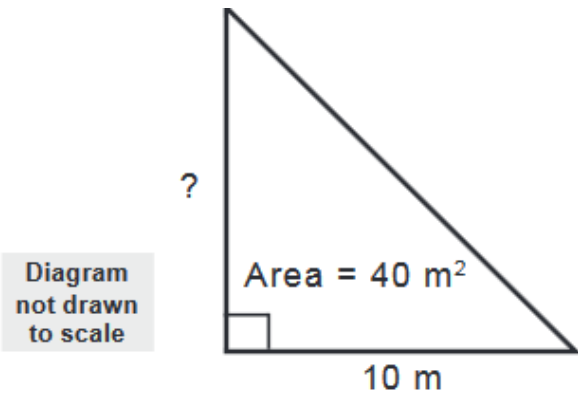What is the area of the following parallelogram?

8 cm

4 cm

Diagram
not drawn
to scale

24 cm²	12 cm²	32 cm²	16 cm²
A	B	C	D

Question 10

Use the area and length of the base in the following right angle triangle to find the missing height.

?

Diagram not drawn to scale

Area = 40 m²

10 m

A   4m   B   5m   C   8m   D   10m
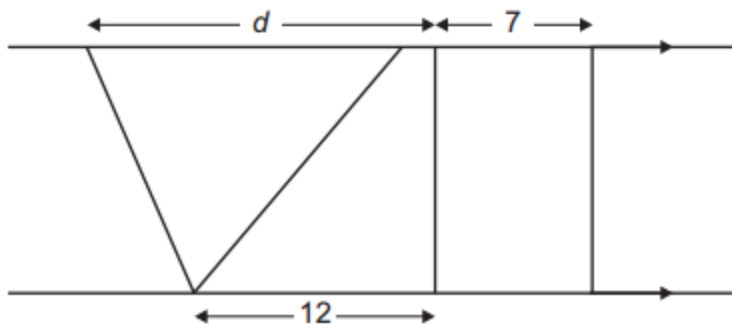

Question 11

What is the area of the unshaded quadrilateral?

2

4

7
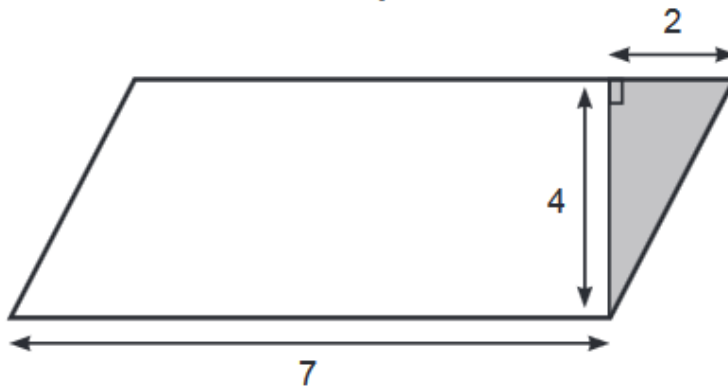
A   20   B   32   C   36   D   24

Question 12

d

7

12

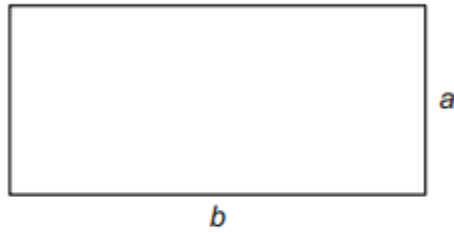The measurements in this diagram are all in centimetres.

The areas of the triangle, trapezium and rectangle are all 70 cm².

What is the value of d?

A   9   B   12   C   14   D   16

Question 13

A square corner measuring x cm by x cm is cut out of this rectangular sheet of paper.

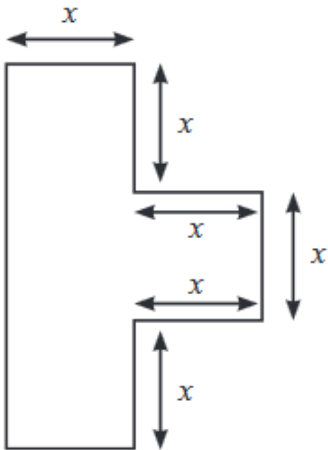Which of these statements is true for the piece of paper that remains?

A   Its area is $ab - x^2$ and its perimeter is $2a + 2b$.

B   Its area is $(ab - x)^2$ and its perimeter is $2(a+b)$.

C   Its area is $ab - x^2$ and its perimeter is $2(a + b - x)$.

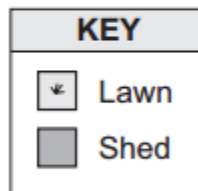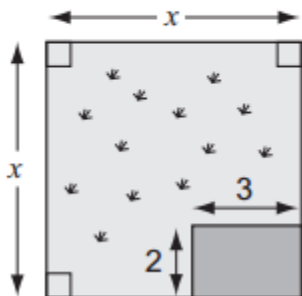D   Its area is $(ab - x)^2$ and its perimeter is $2a + 2b - 4x$.

Question 14

The following diagram represents Alex's bedroom. Which expression gives the area of the bedroom?

A $4x^2$ B $2x^2$

C x^2 D $4x$

Question 15

Sue drew this plan of a square block of land.
All measurements are given in metres.

KEY

✶	Lawn
▨	Shed

The area of the lawn in square metres is

$x^2 - 6$	$x^2 + 6$	$2x^2 - 5$	$2x^2 - 6$
A	B	C	D