

$$63 \div 21 = \triangle \div 63$$



$$\triangle =$$

What is the value of \triangle ?

☐ 3

☐ 7

☐ 21

☐ 189

Jevan completed this table which shows the result when two numbers are multiplied together:

X	0.015	0.15	1.5	15
0.03	0.00045	0.0045	0.045	0.45
0.3	0.0045	0.045	0.45	4.5
3	M		4.5	
30	0.45	4.5	45	450

What is the value of **M**?

☐ 0.045

☐ 0.45

☐ 4.5

☐ 45

Sergio completed this table which shows the result when two numbers are multiplied together:

X	0.015	0.15	1.5	15
0.03	0.00045	0.0045	0.045	0.45
0.3	0.0045	0.045	0.45	4.5
3	M		4.5	
30	0.45	4.5	45	450

What is $0.045 \div 0.15$?

☐ 0.03

☐ 0.3

☐ 3

☐ 30

Ajak completed this table which shows the result when two numbers are multiplied together:

X	0.015	0.15	1.5	15
0.03	0.00045	0.0045	0.045	0.45
0.3	0.0045	0.045	0.45	4.5
3	M		4.5	
30	0.45	4.5	45	450

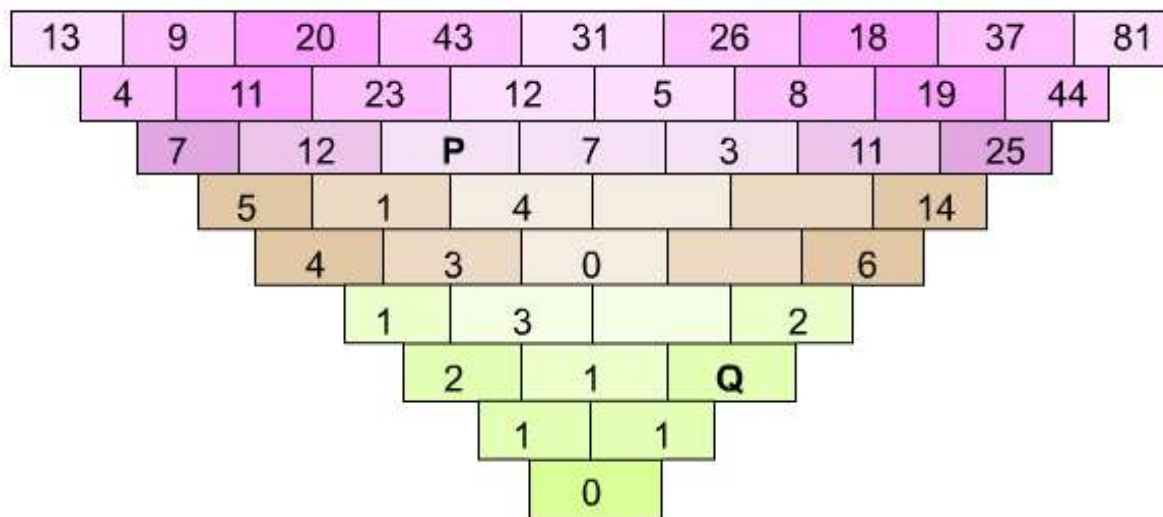
What is 0.0015×0.003 ?

☐ 0.000000045

☐ 0.00000045

☐ 0.0000045

☐ 0.000045



The numbers in the diagram form a pattern.

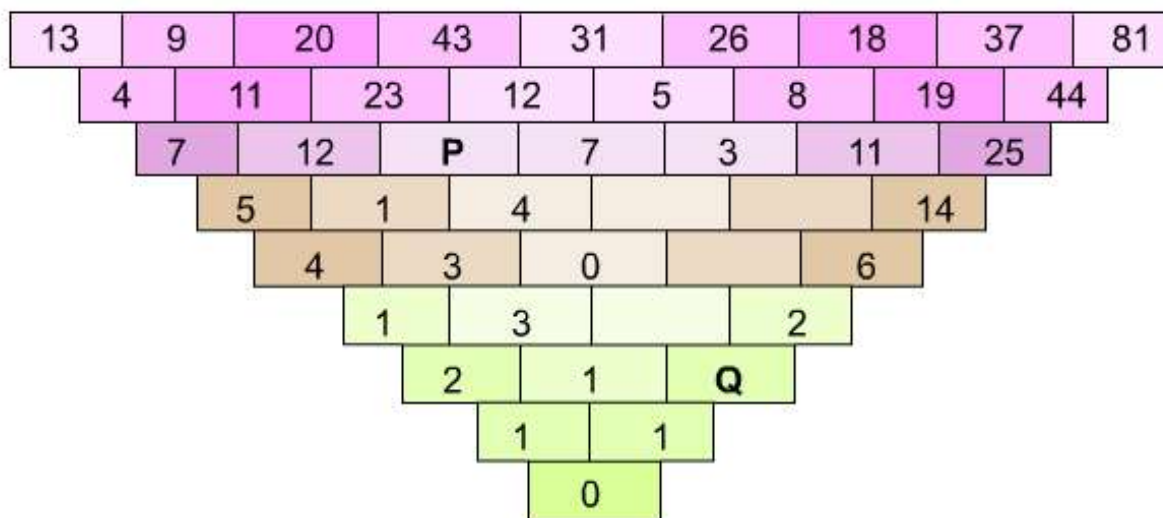
What is the value of **P**?

☐ 11

☐ 10

☐ 9

☐ 17



The numbers in the diagram form a pattern.

What is the value of **Q**?

☐ 1

☐ 2

☐ 3

☐ 4

5	J	L	H	A	P	I
4	S	B	Z	O	D	.
3	N	E	X	U	Y	?
2	F	R	G	K	C	Space
1	W	M	T	Q	V	-
	1	2	3	4	5	6

The grid is used to put words into code. The letter B is (2, 4).

RAIN is described using which code?

☐ (2, 2) (4, 5) (6, 5) (1, 3)

☐ (2, 2) (5, 4) (5, 6) (1, 3)

☐ (2, 2) (5, 4) (5, 6) (3, 1)

☐ (2, 2) (4, 5) (5, 6) (1, 3)

Marjorie is making a large Christmas pudding and needs 3 kilograms of mixed fruit.



Mixed fruit

1 kg packet	\$3.05
750 g packet	\$2.65

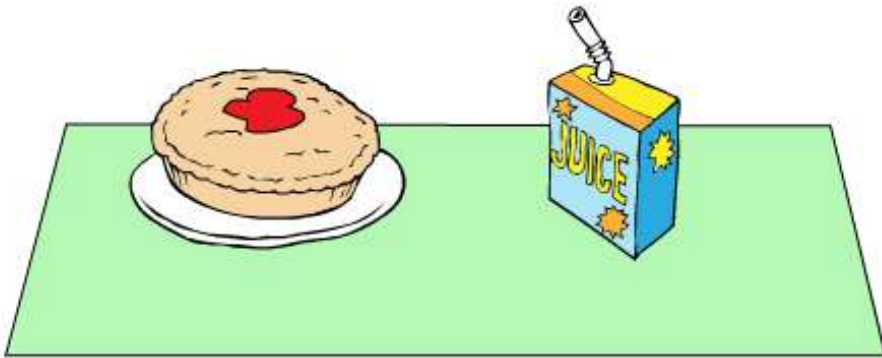
How much will she save by buying the 1-kg packets compared to the 750-g packets?

☐ \$0.40

☐ \$1.35

☐ \$1.45

☐ \$1.55



Three pies and two juices cost \$9.00, while a pie and a juice cost \$3.50.

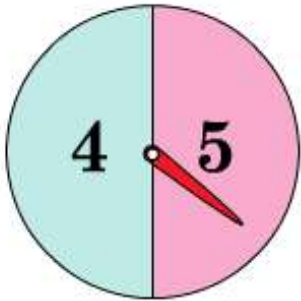
What is the cost of a juice?

☐ \$1.20

☐ \$1.50

☐ \$1.75

☐ \$2.25



The spinner has sectors marked as 4 and 5.

Bhavan keeps spinning the arrow, adding each 4 or 5 as it is spun.

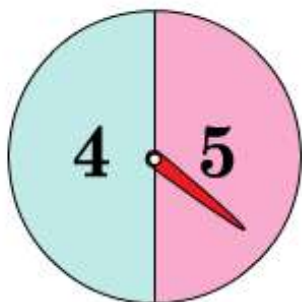
What is the smallest number of spins to get a sum of 28?

☐ 4

☐ 5

☐ 6

☐ 7



The spinner has sectors marked as 4 and 5.

Bhavan keeps spinning the arrow, adding each 4 or 5 as it is spun.

Which of the following sums is impossible?

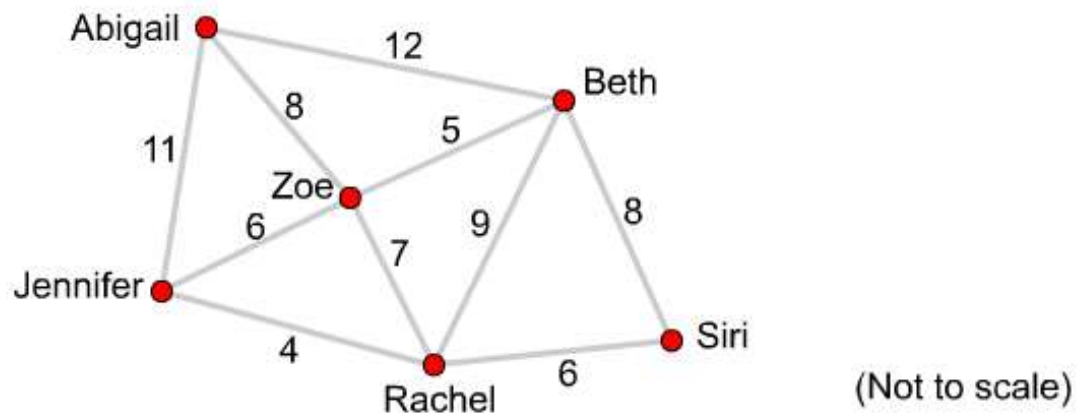
☐ 8

☐ 9

☐ 11

☐ 17

The map shows the position of the homes of six friends and the roads connecting those homes with the distances shown in kilometres.



Zoe's mother leaves home to collect Zoe's friends and return them to her house for a party.

What is the minimum distance Zoe's mother must travel?

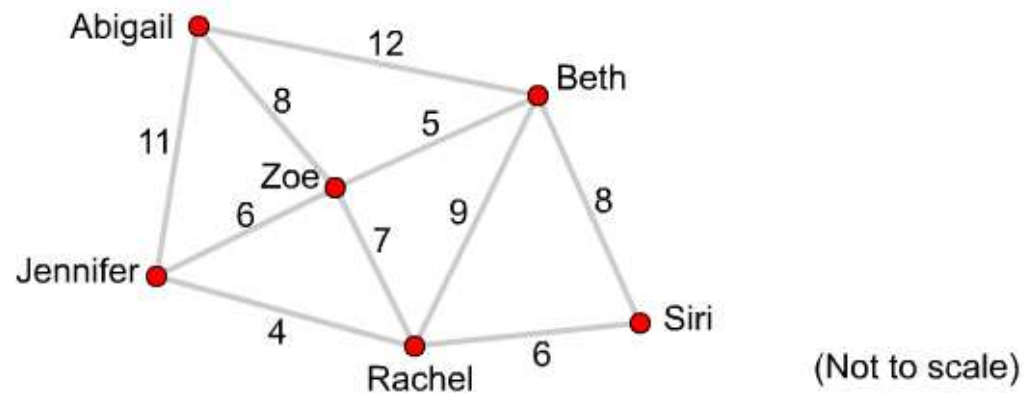
☐ 40 km

☐ 42 km

☐ 44 km

☐ 57 km

The map shows the position of the homes of six friends and the roads connecting those homes with the distances shown in kilometres.



Beth rides her bike at 12 km/h.

If she takes the most direct route and spends 15 minutes at Rachel's house on the way, how long will it take Beth to ride to Jennifer's house?

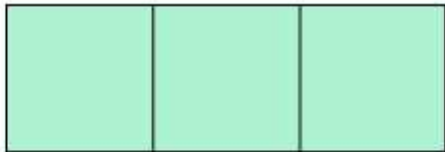
☐ less than half an hour

☐ between half an hour and one hour

☐ between one hour and an hour and a half

☐ more than one and a half hours

A rectangle is formed by joining three squares together.



If the perimeter of the rectangle is 16 cm, what is the area of the rectangle?

12 cm²

☐

24 cm²

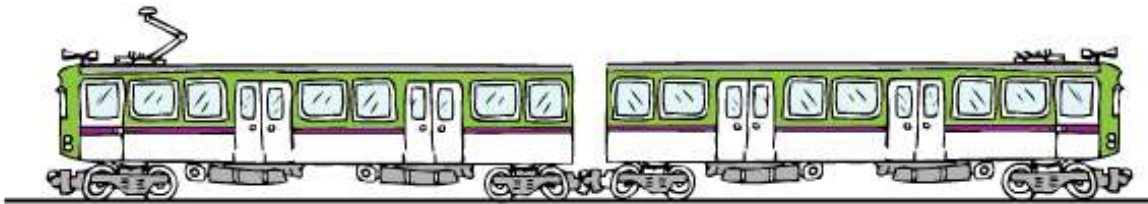
☐

64 cm²

☐

72 cm²

☐



Blake takes the morning train trip from Dunnyorke. The train leaves at 7:38 am and arrives at Sotone at 8:27 am. In the evening the return journey takes 5 minutes longer.

What time will Blake arrive back in Dunnyorke if he leaves Sotone at 5:56 pm?

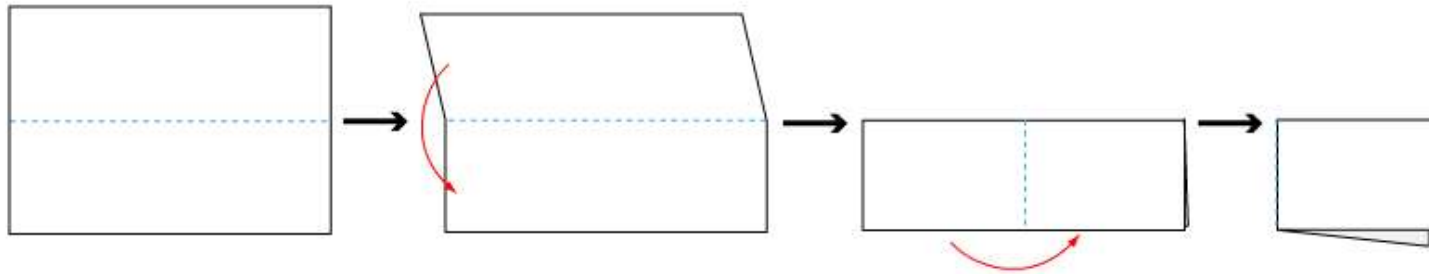
☐ 6:40 pm

☐ 6:48 pm

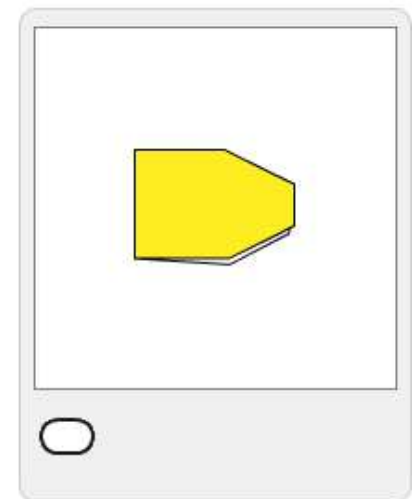
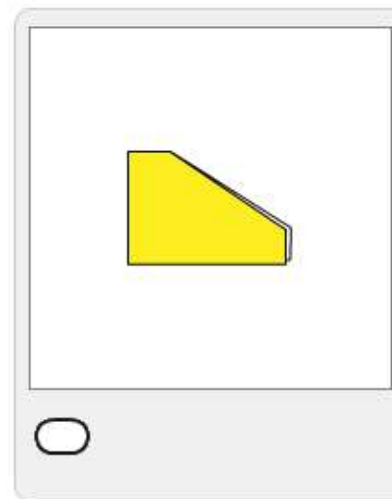
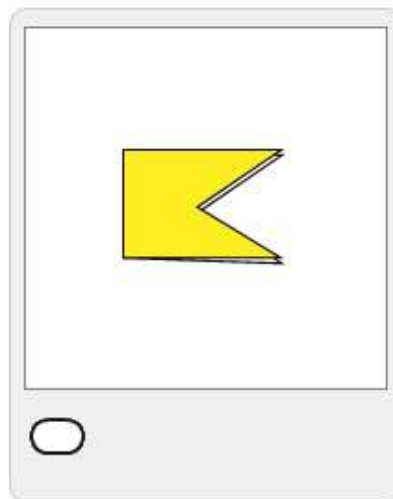
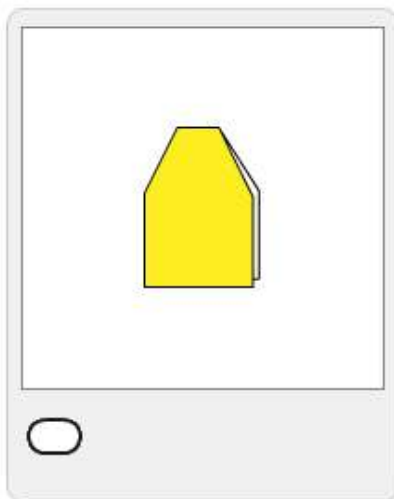
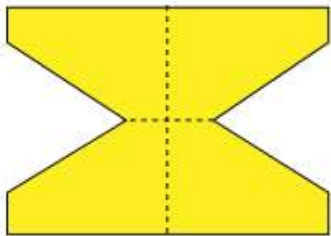
☐ 6:50 pm

☐ 6:52 pm

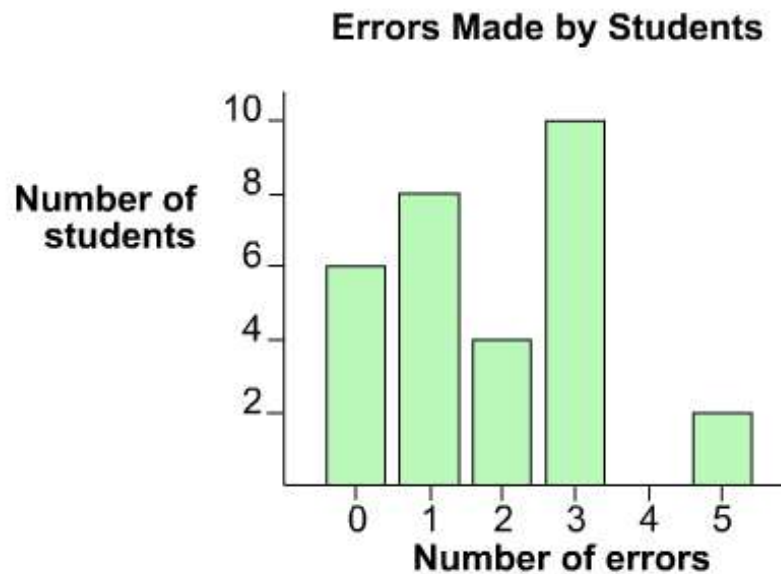
Anya folded a sheet of paper in half and then folded it in half again.



What cut(s) of the folded page would have produced the shape shown below when unfolded?



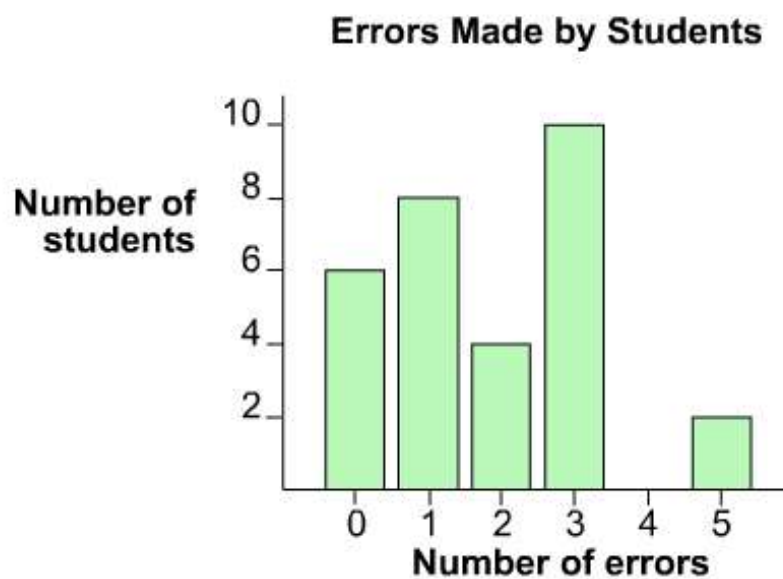
The graph shows the number of errors made by students in a class in a quiz marked out of 20.



How many students scored 100% in the quiz?

☐☐ 6☐ 10☐ 30

The graph shows the number of errors made by students in a class in a quiz marked out of 20.



How many students were in the class?

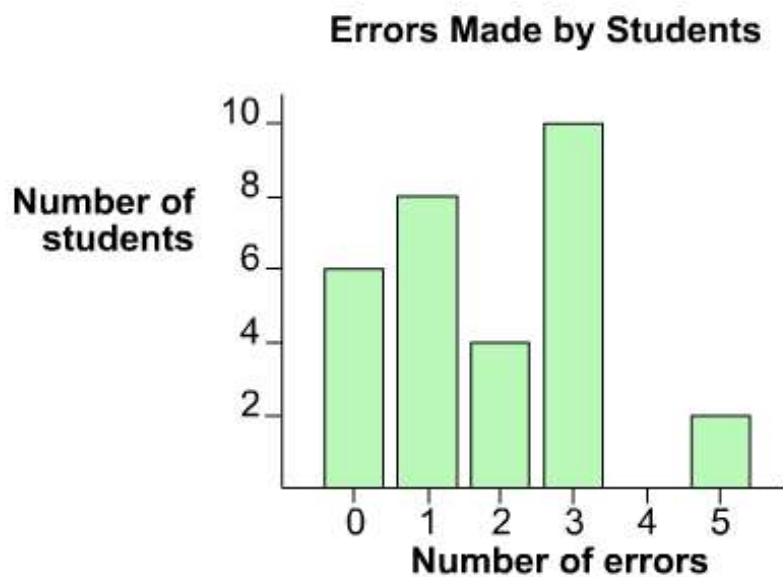
☐ 5

☐ 25

☐ 30

☐ 32

The graph shows the number of errors made by students in a class in a quiz marked out of 20.



How many errors were made by the students in the class?

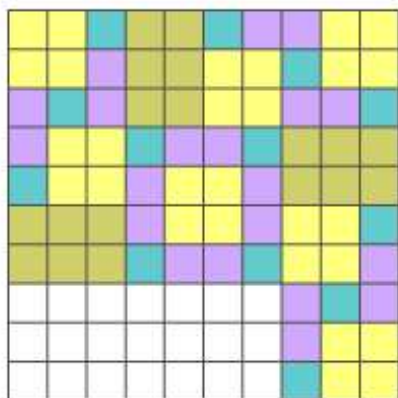
☐ 42

☐ 48

☐ 56

☐ 62

This design, when completed, is symmetrical. It uses four shapes.



Which shapes are needed to complete the design?

