

1

A school has 18 classrooms.

Each classroom has space for 32 students.

What is the total number of students the school can accommodate?

A 576

B 550

C 608

D 512

1

2

A rectangular fish tank has a capacity of $3,600 \text{ cm}^3$ when completely filled with water.

If the length of the tank is 30 cm and the width is 20 cm, what is the height of the tank?

A 6 cm

B 5 cm

C 7 cm

D 8 cm

1

3

Amelia is creating a photo collage for her school project. She has printed out several rectangular photos, each measuring 6 cm in height and 4 cm in width.

For her collage, Amelia has a large piece of cardboard that is 24 cm tall and 36 cm wide. She wants to arrange the photos on the cardboard in a grid pattern, ensuring that no photos overlap.

If Amelia uses the entire cardboard for her collage, what is the maximum number of photos that she can fit on the cardboard?

A 54

B 24

C 36

D 72

1

4

Which of the following regular polygons has the same number of lines of symmetry as the number of sides it has?

A Regular heptagon

B Regular pentagon

C Regular octagon

D All the above

1

5

A pizza is divided into four unequal slices for four friends.

The smallest slice has an angle of x degrees, while the second smallest slice is twice the size of the smallest, with an angle of $2x$ degrees.

The second largest slice is three times the size of the smallest, with an angle of $3x$ degrees, and the largest slice is four times the size of the smallest.

Calculate the value of x .

6

The area, A , of a rectangle with length l and width w is given by this formula: $A = lw$

Calculate the area of a rectangular field with a length of 50 metres and a width of 30 metres.

- A 1,500 square metres B 150 square metres C 80 square metres D 1,550 square metres

1

7

A train is scheduled to depart from London Paddington station at 14:40.

If the train is delayed by 35 minutes, what time will it depart using the 24-hour clock format?

- A 15:15 B 14:75 C 15:05 D 15:25

1

8

Samantha has been practicing her violin for 420 minutes this week.

How many seconds in total has she spent practicing?

- A 25 200 seconds B 42 000 seconds C 21 420 seconds D 28 800 seconds

1

9

A circular mirror has a radius of 35 cm.

What is the diameter of the mirror?

- A 70 cm B 17.5 cm C 140 cm D 1,225 cm

1

10

If $y = 5x + 2$, what is the value of y when $x = 4$?

- A 22 B 18 C 20 D 24

1

