SMART PATHSALA

EMPOWERING MINDS. SHAPING FUTURES.

Mathematics

12 Solved Questions | FREE SAMPLE

Instructions: Select the best answer. The correct answer and a short explanation follow each question. These are practice questions for learning and revision, not guaranteed exam predictions.

1. 15% of 240 =

A. 24

B. 30

C. 36

D. 40

Answer: C. 36
0.15 × 240 = 36.

2. 3/4 + 1/8 =

A. 5/8

B. 7/8

C. 1

D. 3/8

Answer: B. 7/8
3/4 = 6/8; 6/8 + 1/8 = 7/8.

3. Increase from 80 to 100 is:

A. 20%

B. 25%

C. 30%

D. 40%

Answer: B. 25%
Increase 20 ÷ original 80 × 100 = 25%.

4. Average of 12, 18, 20, 10 =

A. 14

B. 15

C. 16

D. 17

Answer: B. 15
Total 60 divided by 4 equals 15.

5. 5 pens cost ■60. Cost of 8 pens?

A. ■84

B. ■90

C. ■96

D. ■100

Answer: C. ■96
One pen costs ■12; 8 cost ■96.

6. Solve 2x + 7 = 19.

A. 5

B. 6

C. 7

D. 8

Answer: B. 6
2x = 12, therefore x = 6.

7. HCF of 24 and 36?

A. 6

B. 8

C. 12

D. 18

Answer: C. 12
12 is the greatest common factor.

8. LCM of 6, 8 and 12?

A. 12

B. 18

C. 24

D. 48

Answer: C. 24
24 is the smallest common multiple.

9. 150 km in 3 hours: average speed?

A. 40

B. 45

C. 50

D. 60 km/h

Answer: C. 50
Speed = distance ÷ time = 50 km/h.

10. SI on ■2,000 at 5% for 2 years?

A. ■100

B. ■150

C. ■200

D. ■250

Answer: C. ■200
SI = P×R×T/100 = ■200.

11. Square perimeter is 48 cm. Side?

A. 10

B. 12

C. 14

D. 16 cm

Answer: B. 12
Side = 48 ÷ 4 = 12 cm.

12. Area of 12 cm × 7 cm rectangle?

A. 72

B. 78

C. 84

D. 96 cm²

Answer: C. 84
Area = length × breadth = 84 cm².

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Disclaimer: Independently prepared educational practice material. Check official notifications and current sources for time-sensitive exam information.