



# GRADE 7 WORK SHEETS

## POWERED BY PROFVED



1. WHAT IS THE VALUE OF  $2 \times (15 - 7) + 3^2$ ?

- A) 23
- B) 25
- C) 27
- D) 29
- E) 31

2. A COAT ORIGINALLY COSTS \$80. IT'S ON SALE FOR 25% OFF. WHAT IS THE SALE PRICE?

- A) \$55
- B) \$60
- C) \$65
- D) \$70
- E) \$75

3. WHAT IS THE NEXT NUMBER IN THE SEQUENCE: 1, 3, 7, 15, \_\_?

- A) 25
- B) 27
- C) 29
- D) 31
- E) 33

4. A RECTANGLE HAS AN AREA OF  $48 \text{ CM}^2$  AND A PERIMETER OF 28 CM. WHAT IS ITS WIDTH?

- A) 4 CM
- B) 6 CM
- C) 8 CM
- D) 10 CM
- E) 12 CM

5. IF IT'S 8:20 PM, HOW MANY MINUTES ARE THERE UNTIL MIDNIGHT?

- A) 180
- B) 200
- C) 220
- D) 240
- E) 260



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6. A CUBE HAS A VOLUME OF  $64 \text{ cm}^3$ . WHAT IS THE LENGTH OF ONE EDGE?

- A) 3 CM
- B) 4 CM
- C) 5 CM
- D) 6 CM
- E) 8 CM

7. A CLASS HAS 12 BOYS AND 18 GIRLS. WHAT IS THE RATIO OF BOYS TO TOTAL STUDENTS, SIMPLIFIED?

- A) 2:5
- B) 3:7
- C) 2:3
- D) 4:9
- E) 5:12

8. WHAT IS THE VALUE OF  $\frac{3}{5} \times \frac{10}{9}$ ?

- A)  $\frac{2}{3}$
- B)  $\frac{3}{4}$
- C)  $\frac{5}{6}$
- D)  $\frac{7}{9}$
- E)  $\frac{8}{11}$

9. SOLVE FOR X:  $2X + 5 = 17$ .

- A) 5
- B) 6
- C) 7
- D) 8
- E) 9

10. A STORE SELLS 4 APPLES FOR \$2.80. HOW MUCH WOULD 10 APPLES COST?

- A) \$6.50
- B) \$7.00
- C) \$7.50
- D) \$8.00
- E) \$8.50



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11. WHICH NUMBER IS DIVISIBLE BY BOTH 6 AND 8?

- A) 36
- B) 42
- C) 48
- D) 54
- E) 60

12. A CIRCLE HAS A CIRCUMFERENCE OF  $12\pi$  CM. WHAT IS ITS AREA?

- A)  $24\pi$  CM<sup>2</sup>
- B)  $36\pi$  CM<sup>2</sup>
- C)  $48\pi$  CM<sup>2</sup>
- D)  $60\pi$  CM<sup>2</sup>
- E)  $72\pi$  CM<sup>2</sup>

13. A NUMBER IS INCREASED BY 20% AND THEN DECREASED BY 20%. IF THE FINAL RESULT IS 48, WHAT WAS THE ORIGINAL NUMBER?

- A) 40
- B) 45
- C) 50
- D) 55
- E) 60

14. HOW MANY POSITIVE TWO-DIGIT NUMBERS ARE THERE WHERE THE TENS DIGIT IS GREATER THAN THE UNITS DIGIT?

- A) 36
- B) 40
- C) 45
- D) 50
- E) 54

15. IF TODAY IS TUESDAY, WHAT DAY WILL IT BE IN 100 DAYS?

- A) MONDAY
- B) TUESDAY
- C) WEDNESDAY
- D) THURSDAY
- E) FRIDAY



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### ANSWERS WITH EXPLANATIONS

- 1.B)  $25, 2 \times (15 - 7) = 16, 3^2 = 9, 16 + 9 = 25$
- 2.B) \$60,  $25\% \text{ OF } \$80 = \$20, \$80 - \$20 = \$60$
- 3.D) 31, PATTERN IS  $2^N - 1$ :  $2^1 - 1 = 1, 2^2 - 1 = 3, 2^3 - 1 = 7, 2^4 - 1 = 15, 2^5 - 1 = 31$
- 4.B) 6 CM, LET WIDTH = W, LENGTH = L = 8;  $2(8 + W) = 28, 8 + W = 14, W = 6$ ; CHECK AREA:  $8 \times 6 = 48$
- 5.C) 220, 8:20 PM TO 12:00 AM:  $3 \text{ HR } 40 \text{ MIN} = 3 \times 60 + 40 = 220$  MINUTES
- 6.B) 4 CM, VOLUME =  $\text{EDGE}^3, 64 = \text{EDGE}^3, \text{EDGE} = \sqrt[3]{64} = 4 \text{ CM}$
- 7.A) 2:5, TOTAL =  $12 + 18 = 30, \text{BOYS:TOTAL} = 12:30 = 2:5$
- 8.A)  $\frac{2}{3}, \frac{3}{5} \times \frac{10}{9} = \frac{(3 \times 10)}{(5 \times 9)} = \frac{30}{45} = \frac{2}{3}$
- 9.B) 6,  $2X + 5 = 17, 2X = 12, X = 6$
- 10.B) \$7.00, 1 APPLE =  $\$2.80 \div 4 = \$0.70, 10 \text{ APPLES} = 10 \times \$0.70 = \$7.00$
- 11.C) 48,  $48 \div 6 = 8, 48 \div 8 = 6$ ; OTHERS DON'T SATISFY BOTH
- 12.B)  $36\pi \text{ CM}^2, C = 2\pi R = 12\pi, R = 6, \text{AREA} = \pi R^2 = \pi \times 6^2 = 36\pi \text{ CM}^2$
- 13.C) 50, LET X BE ORIGINAL;  $X \times 1.2 \times 0.8 = 48, X \times 0.96 = 48, X = 48 \div 0.96 = 50$
- 14.A) 36, TENS > UNITS: 2-DIGIT NUMBERS LIKE 21, 31, 32, ETC.; COUNT PAIRS:  $9-1 + 8-1 + \dots + 2-1 = 36$
- 15.C) WEDNESDAY,  $100 \div 7 = 14 \text{ WEEKS} + 2 \text{ DAYS, TUESDAY} + 2 \text{ DAYS} = \text{WEDNESDAY}$