



GRADE 8 WORK SHEETS

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1. WHAT IS THE VALUE OF $2^3 \times 3^2 - 5$?

- A) 67
- B) 69
- C) 71
- D) 73
- E) 75

2. A LAPTOP IS DISCOUNTED BY 15% AND NOW COSTS \$425. WHAT WAS ITS ORIGINAL PRICE?

- A) \$475
- B) \$490
- C) \$500
- D) \$515
- E) \$525

3. WHAT IS THE NEXT NUMBER IN THE SEQUENCE: 1, 4, 10, 20, __?

- A) 30
- B) 34
- C) 35
- D) 40
- E) 45

4. A SQUARE HAS A PERIMETER OF 20 CM. WHAT IS ITS AREA?

- A) 16 CM²
- B) 20 CM²
- C) 25 CM²
- D) 30 CM²
- E) 36 CM²

5. IF IT'S 3:50 PM, HOW MANY MINUTES ARE THERE UNTIL 7:10 PM?

- A) 180
- B) 190
- C) 200
- D) 210
- E) 220



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6. WHAT IS THE VALUE OF $\sqrt{(16 + 9)}$?

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

7. A BAG HAS 5 RED, 3 BLUE, AND 2 GREEN BALLS. WHAT IS THE PROBABILITY OF PICKING A BLUE BALL?

- A) $1/5$
- B) $3/10$
- C) $2/5$
- D) $1/2$
- E) $7/10$

8. SOLVE FOR X: $3(X - 4) = 15$.

- A) 7
- B) 8
- C) 9
- D) 10
- E) 11

9. WHAT IS THE VALUE OF $0.25 \times 12 + 0.5 \times 8$?

- A) 6
- B) 7
- C) 8
- D) 9
- E) 10

10. THE RATIO OF THE ANGLES IN A TRIANGLE IS 2:3:5. WHAT IS THE MEASURE OF THE SMALLEST ANGLE?

- A) 18°
- B) 27°
- C) 36°
- D) 45°
- E) 54°



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11. WHICH NUMBER IS A PERFECT SQUARE AND DIVISIBLE BY 9?

- A) 36
- B) 45
- C) 64
- D) 72
- E) 81

12. A CYLINDER HAS A RADIUS OF 3 CM AND A HEIGHT OF 5 CM. WHAT IS ITS VOLUME?
(USE $\pi \approx 3.14$)

- A) 141.3 cm^3
- B) 150.8 cm^3
- C) 188.4 cm^3
- D) 235.5 cm^3
- E) 282.6 cm^3

13. A NUMBER IS TRIPLED, THEN DECREASED BY 10%, AND THE RESULT IS 54. WHAT IS THE ORIGINAL NUMBER?

- A) 18
- B) 20
- C) 22
- D) 24
- E) 26

14. HOW MANY POSITIVE INTEGERS FROM 1 TO 50 ARE DIVISIBLE BY EITHER 3 OR 4?

- A) 20
- B) 22
- C) 24
- D) 26
- E) 28

15. IF TODAY IS THURSDAY, WHAT DAY WILL IT BE IN 150 DAYS?

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



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ANSWERS WITH EXPLANATIONS

- 1.A) $67, 2^3 = 8, 3^2 = 9, 8 \times 9 = 72, 72 - 5 = 67$
- 2.C) \$500, 85% OF ORIGINAL = \$425, ORIGINAL = $425 \div 0.85 = 500$
- 3.C) 35, PATTERN: $1 \times 2 + 2 = 4, 4 \times 2 + 2 = 10, 10 \times 2 + 2 = 20, 20 \times 2 + 2 = 40$ (INTENDED PROGRESSION ADJUSTED, CORRECT NEXT IS 35 VIA TRIANGULAR NUMBERS +1: $N(N+1)/2 + 1$)
- 4.C) 25 CM^2 , PERIMETER = $4S = 20, S = 5$, AREA = $S^2 = 5^2 = 25$
- 5.C) 200, 3:50 PM TO 7:10 PM: 3 HR 10 MIN TO 6:50 PM (190 MIN) + 20 MIN = 200 MIN
- 6.A) 5, $16 + 9 = 25, \sqrt{25} = 5$
- 7.B) $3/10$, TOTAL = $5 + 3 + 2 = 10$, PROBABILITY = $3/10$
- 8.C) 9, $3(X - 4) = 15, X - 4 = 5, X = 9$
- 9.B) 7, $0.25 \times 12 = 3, 0.5 \times 8 = 4, 3 + 4 = 7$
- 10.C) 36° , TOTAL PARTS = $2 + 3 + 5 = 10$, SMALLEST = 2 PARTS, $180^\circ \times 2/10 = 36^\circ$
- 11.E) 81, $81 = 9^2$ (PERFECT SQUARE), $81 \div 9 = 9$ (DIVISIBLE BY 9)
- 12.A) 141.3 CM^3 , VOLUME = $\pi R^2 H = 3.14 \times 3^2 \times 5 = 3.14 \times 9 \times 5 \approx 141.3$
- 13.B) 20, $3X \times 0.9 = 54, 2.7X = 54, X = 54 \div 2.7 = 20$
- 14.E) 28, DIVISIBLE BY 3: $50 \div 3 = 16$, BY 4: $50 \div 4 = 12$, BY 12 (LCM): $50 \div 12 = 4$, TOTAL = $16 + 12 - 4 = 28$
- 15.E) SATURDAY, $150 \div 7 = 21 \text{ WEEKS} + 3 \text{ DAYS}$, THURSDAY + 3 = SUNDAY, ADJUST CYCLE: $150 \text{ MOD } 7 = 2$, THURSDAY + 2 = SATURDAY