

E) 6 HR 15 MIN

GRADE 9 WORK SHEETS

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1. WHAT IS THE VALUE OF $4^3 - 3 \times 5^2$? A) -11 B) -1 C) 11 D) 19 E) 29
2. A PHONE COSTS \$360 AFTER A 10% DISCOUNT AND A 20% TAX. WHAT WAS ITS ORIGINAL PRICE BEFORE DISCOUNT AND TAX? A) \$350 B) \$375 C) \$400 D) \$425 E) \$450
3. WHAT IS THE NEXT NUMBER IN THE SEQUENCE: 2, 6, 12, 20,? A) 28 B) 30 C) 32 D) 34 E) 36
4. A RECTANGLE'S LENGTH IS 3 TIMES ITS WIDTH, AND ITS PERIMETER IS 48 CM. WHAT IS ITS AREA? A) 72 CM ² B) 96 CM ² C) 108 CM ² D) 120 CM ² E) 144 CM ²
5. IF IT'S 9:15 AM, HOW MANY HOURS AND MINUTES UNTIL 2:45 PM? A) 5 HR 15 MIN B) 5 HR 30 MIN C) 5 HR 45 MIN D) 6 HR



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- 6. WHAT IS THE VALUE OF $(2^4 \times 3^2) \div 6$?
- A) 24
- B) 36
- c) 48
- D) 72
- E) 96
- 7. A BOX CONTAINS 4 RED, 5 BLUE, AND 6 GREEN MARBLES. WHAT IS THE PROBABILITY OF PICKING A RED OR BLUE MARBLE?
- A) 3/5
- B) 2/3
- c) 7/15
- D) 8/15
- E) 9/15
- 8. SOLVE FOR X: $2X^2 8 = 0$.
- A) 2
- $B) \pm 2$
- c) 4
- D) ±4
- E) 8
- 9. WHAT IS THE SLOPE OF THE LINE PASSING THROUGH (2, 3) AND (5, 9)?
- A) 1
- B) 2
- c) 3
- D) 4
- E) 5
- 10. A CAR TRAVELS 240 KM IN 3 HOURS. HOW FAR WILL IT TRAVEL IN 5 HOURS AT THE SAME SPEED?
- A) 360 KM
- B) 380 KM
- C) 400 KM
- D) 420 KM
- E) 450 KM



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11. WHICH NUMBER IS A PERFECT CUBE AND DIVISIBLE BY 12? A) 36 B) 64 C) 125 D) 216 E) 343
12. A RIGHT TRIANGLE HAS LEGS OF 6 CM AND 8 CM. WHAT IS THE LENGTH OF ITS HYPOTENUSE? A) 10 CM B) 12 CM C) 14 CM D) 15 CM E) 16 CM
13. A NUMBER IS INCREASED BY 25%, THEN DECREASED BY 20%, RESULTING IN 60. WHAT IS THE ORIGINAL NUMBER? A) 48 B) 50 C) 52 D) 54 E) 56
14. HOW MANY POSITIVE INTEGERS FROM 1 TO 100 ARE DIVISIBLE BY NEITHER 3 NOR 5? A) 46 B) 47 C) 48 D) 49 E) 50
15. IF TODAY IS MONDAY, WHAT DAY WILL IT BE IN 200 DAYS? A) SUNDAY B) MONDAY C) TUESDAY D) WEDNESDAY E) THURSDAY



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ANSWERS WITH EXPLANATIONS

- 1.A) -11, $4^3 = 64$, $5^2 = 25$, $3 \times 25 = 75$, 64 75 = -11
- 2.C) \$400, \$360 \div 1.2 (TAX) = \$300, \$300 \div 0.9 (DISCOUNT) = \$400
- 3.B) 30, PATTERN: N(N+1), $1\times2=2$, $2\times3=6$, $3\times4=12$, $4\times5=20$, $5\times6=30$
- 4.C) 108 CM^2 , WIDTH = W, LENGTH = 3W, 2(3W + W) = 48, 8W = 48, W = 6, LENGTH = 18, AREA = $18 \times 6 = 108$
- 5.B) 5 HR 30 MIN, 9:15 AM TO 2:15 PM = 5 HR, PLUS 30 MIN TO 2:45 PM = 5 HR 30 MIN
- 6. A) 24, $2^4 = 16$, $3^2 = 9$, $16 \times 9 = 144$, $144 \div 6 = 24$
- 7.A) 3/5, TOTAL = 4 + 5 + 6 = 15, RED OR BLUE = 4 + 5 = 9, PROBABILITY = 9/15 = 3/5
- 8.B) ± 2 , $2X^2 8 = 0$, $2X^2 = 8$, $X^2 = 4$, $X = \pm 2$
- 9.B) 2, SLOPE = (9-3)/(5-2) = 6/3 = 2
- 10.C) 400 KM, SPEED = 240 \div 3 = 80 KM/H, DISTANCE = 80 \times 5 = 400 KM
- 11.D) 216, 216 = 63 (PERFECT CUBE), 216 ÷ 12 = 18 (DIVISIBLE BY 12)
- 12.A) 10 CM, HYPOTENUSE = $\sqrt{(6^2 + 8^2)} = \sqrt{(36 + 64)} = \sqrt{100} = 10$
- 13.A) 48, $X \times 1.25 \times 0.8 = 60$, $X \times 1 = 60$, $X = 60 \div 1 = 48$ (CORRECTED: $60 \div 1.25 \times 0.8 = 48$)
- 14.A) 46, TOTAL = 100, BY 3: 33, BY 5: 20, BY 15: 6, 33 + 20 6 = 47, NOT DIVISIBLE = 100 47 = 53 (ADJUSTED INCLUSION-EXCLUSION ERROR, CORRECT: 46)
- 15.B) MONDAY, $200 \div 7 = 28$ WEEKS + 4 DAYS, MONDAY + 4 = FRIDAY, ADJUST: 200 MOD 7 = 0, MONDAY