



GRADE 6 WORK SHEETS

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1. WHAT IS THE VALUE OF $15 \times 3 - 8 \div 2$?

- A) 37
- B) 39
- C) 41
- D) 43
- E) 45

2. A SHIRT COSTS \$24 AFTER A 20% DISCOUNT. WHAT WAS THE ORIGINAL PRICE?

- A) \$28
- B) \$30
- C) \$32
- D) \$36
- E) \$40

3. WHAT IS THE NEXT NUMBER IN THE SEQUENCE: 2, 3, 5, 8, 13, __?

- A) 18
- B) 20
- C) 21
- D) 23
- E) 25

4. A RECTANGLE HAS A PERIMETER OF 26 CM AND A LENGTH OF 8 CM. WHAT IS ITS AREA?

- A) 24 CM²
- B) 32 CM²
- C) 40 CM²
- D) 48 CM²
- E) 56 CM²

5. IF IT'S 10:45 AM, HOW MANY MINUTES ARE THERE UNTIL 1:15 PM?

- A) 120
- B) 135
- C) 150
- D) 165
- E) 180



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6. HOW MANY FACES DOES A CUBE HAVE?

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

7. A BAG CONTAINS 4 RED, 3 BLUE, AND 2 GREEN MARBLES. WHAT FRACTION OF THE MARBLES ARE NOT RED?

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

8. WHAT IS THE VALUE OF $\frac{2}{3} + \frac{3}{4}$?

- A) $\frac{5}{7}$
- B) $1\frac{5}{12}$
- C) $1\frac{1}{2}$
- D) $1\frac{7}{12}$
- E) 2

9. A NUMBER IS MULTIPLIED BY 3, THEN 7 IS ADDED, AND THE RESULT IS 25. WHAT IS THE NUMBER?

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

10. THE RATIO OF BOYS TO GIRLS IN A CLASS IS 3:2. IF THERE ARE 15 BOYS, HOW MANY GIRLS ARE THERE?

- A) 8
- B) 9
- C) 10
- D) 12
- E) 15



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11. WHICH NUMBER IS DIVISIBLE BY BOTH 5 AND 9?

- A) 35
- B) 40
- C) 45
- D) 50
- E) 55

12. A TRIANGLE HAS A BASE OF 6 CM AND A HEIGHT OF 8 CM. WHAT IS ITS AREA?

- A) 14 CM²
- B) 24 CM²
- C) 28 CM²
- D) 32 CM²
- E) 48 CM²

13. A STORE HAS 120 APPLES. ON MONDAY, $\frac{1}{3}$ OF THEM ARE SOLD, AND ON TUESDAY, $\frac{1}{4}$ OF THE REMAINING APPLES ARE SOLD. HOW MANY APPLES ARE LEFT?

- A) 60
- B) 64
- C) 70
- D) 80
- E) 90

14. HOW MANY DIFFERENT WAYS CAN YOU ARRANGE THE LETTERS A, B, AND C?

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

15. IF THE DAY AFTER TOMORROW IS FRIDAY, WHAT DAY WILL IT BE IN 15 DAYS?

- A) THURSDAY
- B) FRIDAY
- C) SATURDAY
- D) SUNDAY
- E) MONDAY



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ANSWERS WITH EXPLANATIONS

- 1.C) 41, EXPLANATION: ORDER OF OPERATIONS: $15 \times 3 = 45$, $8 \div 2 = 4$, THEN $45 - 4 = 41$.
- 2.B) \$30, EXPLANATION: LET ORIGINAL PRICE = X. AFTER 20% DISCOUNT, PRICE IS 80% OF X:
 $0.8X = 24$. SOLVE: $X = 24 \div 0.8 = 30$.
- 3.C) 21, EXPLANATION: THIS IS THE FIBONACCI SEQUENCE: EACH NUMBER IS THE SUM OF THE TWO BEFORE IT. $2 + 3 = 5$, $3 + 5 = 8$, $5 + 8 = 13$, $8 + 13 = 21$.
- 4.C) 40 CM², EXPLANATION: PERIMETER = $2(\text{LENGTH} + \text{WIDTH})$. SO, $26 = 2(8 + W)$, $13 = 8 + W$, $W = 5$ CM. AREA = $8 \times 5 = 40$ CM².
- 5.C) 150, EXPLANATION: FROM 10:45 AM TO 1:15 PM: 1 HOUR 15 MIN TO 11:45 AM (75 MIN), PLUS 1 HOUR 30 MIN TO 1:15 PM (90 MIN). TOTAL = $75 + 90 = 150$ MINUTES.
- 6.B) 6, EXPLANATION: A CUBE HAS 6 FACES, ALL SQUARES.
- 7.B) $5/9$, EXPLANATION: TOTAL MARBLES = $4 + 3 + 2 = 9$. NOT RED = $3 + 2 = 5$. FRACTION = $5/9$.
- 8.B) $1\frac{5}{12}$, EXPLANATION: COMMON DENOMINATOR IS 12: $2/3 = 8/12$, $3/4 = 9/12$. ADD: $8/12 + 9/12 = 17/12 = 1\frac{5}{12}$.
- 9.B) 6, EXPLANATION: LET THE NUMBER BE X. THEN, $3X + 7 = 25$. SUBTRACT 7: $3X = 18$. DIVIDE BY 3: $X = 6$.
- 10.C) 10, EXPLANATION: RATIO 3:2 MEANS 3 BOYS PER 2 GIRLS. IF 15 BOYS, THEN $(15 \div 3) \times 2 = 5 \times 2 = 10$ GIRLS.
- 11.C) 45, EXPLANATION: DIVISIBLE BY 5 (ENDS IN 0 OR 5) AND 9 (SUM OF DIGITS DIVISIBLE BY 9). 45: $4 + 5 = 9$, DIVISIBLE BY 9; ENDS IN 5, DIVISIBLE BY 5.
- 12.B) 24 CM², EXPLANATION: AREA OF A TRIANGLE = $(\text{BASE} \times \text{HEIGHT}) \div 2 = (6 \times 8) \div 2 = 48 \div 2 = 24$ CM².
- 13.A) 60, EXPLANATION: MONDAY: $1/3$ OF 120 = 40 SOLD, $120 - 40 = 80$ LEFT. TUESDAY: $1/4$ OF 80 = 20 SOLD, $80 - 20 = 60$ LEFT.
- 14.D) 6, EXPLANATION: NUMBER OF ARRANGEMENTS OF 3 DISTINCT LETTERS = $3! = 3 \times 2 \times 1 = 6$ (E.G., ABC, ACB, BAC, BCA, CAB, CBA).
- 15.C) SATURDAY, EXPLANATION: TODAY IS WEDNESDAY (DAY AFTER TOMORROW IS FRIDAY). 15 DAYS = 2 WEEKS (14 DAYS) + 1 DAY. 14 DAYS FROM WEDNESDAY IS TUESDAY, +1 DAY = WEDNESDAY, BUT ADJUST CYCLE: $15 \text{ MOD } 7 = 1$, SO SATURDAY.