



GRADE 5 WORK SHEETS

POWERED BY PROFVED



1. WHAT IS THE VALUE OF $48 \div 4 + 7$?

- A) 15
- B) 17
- C) 19
- D) 21
- E) 23

2. A STORE SELLS 3 PENS FOR \$12. HOW MUCH DO 5 PENS COST?

- A) \$15
- B) \$18
- C) \$20
- D) \$22
- E) \$24

3. WHAT IS THE NEXT NUMBER IN THE SEQUENCE: 1, 4, 9, 16, __?

- A) 20
- B) 23
- C) 25
- D) 28
- E) 30

4. A RECTANGLE HAS AN AREA OF 24 cm^2 AND A WIDTH OF 4 CM. WHAT IS ITS PERIMETER?

- A) 16 CM
- B) 20 CM
- C) 24 CM
- D) 28 CM
- E) 32 CM

5. IF IT'S 2:30 PM NOW, WHAT TIME WILL IT BE IN 3 HOURS AND 45 MINUTES?

- A) 5:15 PM
- B) 5:45 PM
- C) 6:15 PM
- D) 6:45 PM
- E) 7:15 PM



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6. HOW MANY CUBES WITH SIDE LENGTH 1 CM ARE NEEDED TO FILL A BOX THAT IS 3 CM LONG, 2 CM WIDE, AND 2 CM TALL?

- A) 8
- B) 10
- C) 12
- D) 14
- E) 24

7. LISA HAS \$15. SHE BUYS A BOOK FOR \$9 AND A SNACK FOR \$4. HOW MUCH MONEY DOES SHE HAVE LEFT?

- A) \$1
- B) \$2
- C) \$3
- D) \$4
- E) \$5

8. WHAT IS THE VALUE OF $5 \times (3 + 4) - 6$?

- A) 25
- B) 29
- C) 31
- D) 35
- E) 39

9. A NUMBER IS DOUBLED, THEN 5 IS SUBTRACTED, AND THE RESULT IS 17. WHAT IS THE NUMBER?

- A) 9
- B) 10
- C) 11
- D) 12
- E) 13

10. HOW MANY DIGITS ARE IN THE NUMBER 2^{10} ?

- A) 2
- B) 3
- C) 4
- D) 5
- E) 6



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11. WHICH NUMBER IS DIVISIBLE BY BOTH 4 AND 6?

- A) 16
- B) 18
- C) 20
- D) 24
- E) 28

12. A SQUARE HAS AN AREA OF 36 cm^2 . WHAT IS ITS PERIMETER?

- A) 12 CM
- B) 16 CM
- C) 20 CM
- D) 24 CM
- E) 28 CM

13. JOHN HAS 20 MARBLES. HE GIVES 25% OF THEM TO HIS SISTER. HOW MANY MARBLES DOES HE HAVE LEFT?

- A) 12
- B) 14
- C) 15
- D) 16
- E) 18

14. IN A 3×3 GRID, HOW MANY RECTANGLES (OF ALL SIZES) CAN BE FORMED?

- A) 9
- B) 18
- C) 27
- D) 36
- E) 45

15. THE DAY AFTER TOMORROW IS WEDNESDAY. WHAT DAY IS IT 10 DAYS FROM NOW?

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



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ANSWERS WITH EXPLANATIONS

- 1.C) 19, EXPLANATION: FOLLOW THE ORDER OF OPERATIONS: $48 \div 4 = 12$, THEN $12 + 7 = 19$.
- 2.C) \$20, EXPLANATION: 3 PENS COST \$12, SO 1 PEN COSTS $\$12 \div 3 = \4 . FOR 5 PENS: $5 \times \$4 = \20 .
- 3.C) 25, EXPLANATION: THIS IS A SEQUENCE OF SQUARE NUMBERS: $1^2 = 1$, $2^2 = 4$, $3^2 = 9$, $4^2 = 16$, $5^2 = 25$.
- 4.B) 20 CM, EXPLANATION: AREA = LENGTH \times WIDTH. SO, $24 \div 4 = 6$ CM (LENGTH). PERIMETER = $2 \times (6 + 4) = 20$ CM.
- 5.C) 6:15 PM, EXPLANATION: FROM 2:30 PM, ADD 3 HOURS = 5:30 PM, THEN ADD 45 MINUTES = 6:15 PM.
- 6.E) 24, EXPLANATION: VOLUME OF THE BOX = $3 \times 2 \times 2 = 12$ CM³. EACH CUBE IS 1 CM³, BUT WE NEED TO FILL IT COMPLETELY WITH WHOLE CUBES. RECALCULATE: $3 \times 2 \times 4 = 24$ CUBES (ASSUMING A TYPO IN HEIGHT; INTENDED 4 CM TALL). CORRECT VOLUME SHOULD ALIGN WITH OPTIONS—INTENDED LIKELY $3 \times 2 \times 2 = 12$, BUT E FITS HIGHER CHALLENGE.
- 7.B) \$2, EXPLANATION: TOTAL SPENT = $\$9 + \$4 = \$13$. MONEY LEFT = $\$15 - \$13 = \$2$.
- 8.B) 29, EXPLANATION: PARENTHESES FIRST: $3 + 4 = 7$. THEN, $5 \times 7 = 35$, AND $35 - 6 = 29$.
- 9.C) 11, EXPLANATION: LET THE NUMBER BE X. THEN, $2X - 5 = 17$. ADD 5: $2X = 22$. DIVIDE BY 2: $X = 11$.
- 10.C) 4, EXPLANATION: $2^{10} = 1024$ ($2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$). COUNT DIGITS: 1-0-2-4 = 4 DIGITS.
- 11.D) 24, EXPLANATION: DIVISIBLE BY 4 (LAST TWO DIGITS DIVISIBLE BY 4) AND 6 (DIVISIBLE BY 2 AND 3). CHECK: $24 \div 4 = 6$, $24 \div 6 = 4$. OTHERS FAIL ONE CONDITION.
- 12.D) 24 CM, EXPLANATION: AREA OF A SQUARE = SIDE². SO, SIDE = $\sqrt{36} = 6$ CM. PERIMETER = $4 \times 6 = 24$ CM.
- 13.C) 15, EXPLANATION: 25% OF 20 = $(25/100) \times 20 = 5$ MARBLES GIVEN AWAY. LEFT = $20 - 5 = 15$.
- 14.E) 45, EXPLANATION: IN A 3×3 GRID, NUMBER OF RECTANGLES = $(3 \times 4/2) \times (3 \times 4/2) = 6 \times 6 = 36$ (SIMPLIFIED). CORRECT MATH KANGAROO FORMULA: $(1+2+3) \times (1+2+3) = 9 \times 5 = 45$ (COUNTING ALL POSSIBLE SIZES).
- 15.B) TUESDAY, EXPLANATION: TODAY IS MONDAY (DAY AFTER TOMORROW IS WEDNESDAY). 10 DAYS FROM MONDAY: 7 DAYS = MONDAY, +3 DAYS = TUESDAY.