

Q05 · One-Step Equations

Sarah has \$42 after spending money on lunch. She originally had \$57. How much did lunch cost?

★ KEY: ORIGINAL - SPENT = REMAINING → SPENT = ORIGINAL - REMAINING

- A) \$15
B) \$99
C) \$42
D) \$12
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Q06 · Order of Operations · PEMDAS

Evaluate: $3 + 2 \times (8 - 5)^2 \div 6$

★ KEY: PEMDAS: Parentheses → Exponent → $\times \div$ → + -

- A) 7.5
B) 6
C) 12.5
D) 25
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Q07 · Inequalities

Jake needs at least \$100. He has \$67 and earns \$11/hr. What is the minimum number of whole hours he must work?

★ KEY: MINIMUM → ROUND UP (ceiling), NEVER DOWN

- A) 2 hours
B) 4 hours
C) 3 hours
D) 9 hours
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Q08 · Variables & Expressions

A store charges \$5 per notebook and \$2 per pen. Which expression gives the total cost of n notebooks and p pens?

★ KEY: RATE \times QUANTITY, ONE TERM PER ITEM

- A) $5p + 2n$
B) $5n + 2p$
C) $7(n + p)$
D) $(5+2)(n+p)$
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Q09 · Two-Step Equations

Five times a number, decreased by 7, equals 28. What is the number?

★ KEY: UNDO +/- FIRST, THEN $\times \div$

- A) 4.2
B) 4
C) 7
D) 6
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Q19 · Area · Circle

A circular pizza has a diameter of 14 inches. What is its area? ($\pi \approx 3.14$)

★ KEY: $A = \pi \times r^2$ (radius = diameter \div 2 — SQUARE the radius!)

A) 43.96 in²

B) 615.44 in²

C) 153.86 in²

D) 196 in²

Q20 · Interior Angles · Polygon

What is the sum of the interior angles of a hexagon (6-sided polygon)?

★ KEY: Sum = $(n - 2) \times 180^\circ$ (n = number of sides)

A) 540°

B) 720°

C) 1080°

D) 360°

ANSWER KEY

No.	Answer	No.	Answer
Q01	B) 4°F	Q11	C) 38 m
Q02	B) 1 cup	Q12	B) 90 m ²
Q03	C) 250 miles	Q13	C) 10 ft
Q04	C) \$60	Q14	B) 31.4 m
Q05	A) \$15	Q15	C) 35
Q06	B) 6	Q16	B) 72 L
Q07	C) 3 hours	Q17	D) 25 ft
Q08	B) $5n + 2p$	Q18	C) 5
Q09	C) 7	Q19	C) 153.86 in ²
Q10	C) 42 km	Q20	B) 720°