



CCAT Quantitative Reasoning Practice

Number Relationships, Logic & Problem Solving

Number Relationships

Find the relationship between numbers to solve each problem.

1. If $3 * 4 = 24$ and $5 * 2 = 20$, what is $6 * 3$? (Hint: the operation is $a * b = 2ab$)
 - A) 18
 - B) 36
 - C) 9
 - D) 30
2. A number divided by 3 equals 15 more than 7. What is the number?
 - A) 44
 - B) 54
 - C) 66
 - D) 72
3. Three consecutive even numbers add up to 78. What is the largest?
 - A) 24
 - B) 26
 - C) 28
 - D) 30
4. If $A = 1$, $B = 2$, $C = 3$, ..., what is the value of CAT ?
 - A) 24
 - B) 27
 - C) 28
 - D) 30



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Logic Problems

Use logical thinking to solve each problem.

5. Sam is taller than Alex. Alex is taller than Jamie. Jamie is taller than Pat. Who is the shortest?
- A) Sam
 - B) Alex
 - C) Jamie
 - D) Pat
6. In a race, Anna finished before Betty but after Carla. Dana finished last. Betty finished before Dana. What is the correct order from first to last?
- A) Carla, Anna, Betty, Dana
 - B) Anna, Carla, Betty, Dana
 - C) Carla, Betty, Anna, Dana
 - D) Anna, Betty, Carla, Dana
7. A farmer has chickens and cows. He counts 20 heads and 56 legs. How many cows does he have?
- A) 6
 - B) 8
 - C) 10
 - D) 12
8. You have 3 boxes. Box A is heavier than Box C. Box B is lighter than Box C. Which box is the heaviest?
- A) Box A
 - B) Box B
 - C) Box C
 - D) Cannot tell



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Word Problems

9. A store sells pencils in packs of 8 and erasers in packs of 6. If you buy 3 packs of each, how many more pencils than erasers do you have?
- A) 2
B) 4
C) 6
D) 8
10. A train travels at 80 km/h. How far does it travel in 2.5 hours?
- A) 160 km
B) 180 km
C) 200 km
D) 240 km
11. Sarah has twice as many books as Tom. Together they have 36 books. How many does Sarah have?
- A) 12
B) 18
C) 24
D) 30
12. A recipe needs $\frac{2}{3}$ cup of sugar. If you want to make 1.5 times the recipe, how much sugar do you need?
- A) $\frac{3}{4}$ cup
B) 1 cup
C) $\frac{5}{6}$ cup
D) $\frac{2}{3}$ cup



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