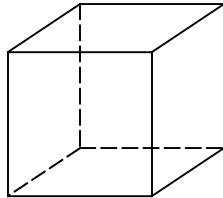


1. You do multiplication before addition, so $2 + 5 \times 4 = 2 + 20 = 22$.

Answer: 22

2. The biggest challenge is drawing or imagining the cube.



you can easily count from this picture: 6 faces, 8 vertices, and 12 edges. $6 + 8 - 12 = 2$. Note: The answer to this question is always 2, even if you change the geometrical solid, say, a triangular prism.

Answer: 2

3. You want the number you get after adding 1 to be 6, so that answer is 5. You can also solve this with variables:

$$4(x + 1) = 24$$

$$x + 1 = 6$$

$$x = 5$$

Answer: 5

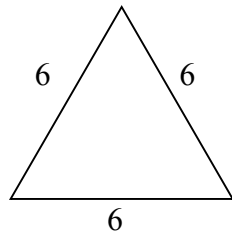
4. There are many ways to think of this, but to convert from fraction to percent, usually you write the fraction in decimal form and multiplying by 100%. $\frac{6}{8} = \frac{3}{4} = 0.75$, $0.75 \times 100\% = 75\%$.

Answer: 75%

5. 7 quarters is worth $7 \times 25 = 175$ cents, 175 cents divided into nickels is $175 \div 5 = 35$ nickels. Or: each quarter is worth 5 nickels, so you have $5 \times 7 = 35$ nickels.

Answer: 35

6. An equilateral triangle has three sides of the same length, so each side length is $18 \div 3 = 6$.



Answer: 6

7. The average of these numbers is $90 \div 3 = 30$. So the numbers must be 29, 30, 31. So the answer is 29. You can also get it by trial and error.

Answer: 29

8.

$$1 \frac{3}{4} - \frac{5}{6} = 1 \frac{9}{12} - \frac{10}{12} = \frac{21}{12} - \frac{10}{12} = \frac{11}{12}$$

Your steps don't really matter as long as you found a common denominator. Note many students probably used the denominator 24, which makes things slower.

Answer: 11/12