

1. What is the simplified form of each expression?

a.
$$3^4 = 3 \cdot 3 \cdot 3 \cdot 3$$
$$= \boxed{81}$$

b.
$$\left(\frac{3}{4}\right)^2 = \frac{3 \cdot 3}{4 \cdot 4} = \left[\frac{9}{16}\right]$$

2. What is the simplified form of each expression?

a.
$$24-2(9-7)^3$$

= $24-2(2)^3$
= $24-2(8)$
= $24-16$
= 8

b.
$$2[3^2 - (10+2) \div 4] = 2[9 - (12) \div 4]$$

= $2[9-3]$
= $2(6)$

3. What is the value of $3a(b^2-c)^2$ for a=10, b=4, and c=12?

$$= 3(0) - (4^{2} - 12)^{2}$$

$$= 30 - (16 - 12)^{2}$$

$$= 30 - (4)^{2} = 30 - 16 = \boxed{14}$$

4. **Do you understand?** Tamera spent ½ of her school budget on notebooks. If she had a budget of \$60.00, how much will she have left to spend?

Tamera will have "45 left to speed.