

1)

$$(3 - 2i)(5 + 3i) = ?$$

$$= 15 + 9i - 10i - 6i^2$$

$$= 15 - i + 6$$

$$= 21 - i$$

If $f(x) = (4x - 3)^2$, then $f(-2) = ?$

$$\begin{aligned} f(-2) &= (4(-2) - 3)^2 \\ &= (-8 - 3)^2 = (-11)^2 = \boxed{121} \end{aligned}$$

Eva has a \$300 gift card for Infinity Ice. She wishes to buy a new pair of ice skates that originally cost \$350, but is on sale for 30% off. If Eva buys the ice skates at the sale price, and an 8% tax rate is applied after the 30% discount, how much money is left on Eva's gift card?

$$1.08 \left(.7 (350) \right) = 264.6$$

$$300 - 264.6 = 35.4$$

Amanda paid \$48 for a dress that was marked down 40% from the original price. Assuming no tax was charged, what was the original price of the dress?

$$\frac{.6 P}{.6} = \frac{48}{.6}$$

$$P = \boxed{80}$$

30% of 60 is equivalent to 90% of which number?

$$.3(60) = .9x$$

$$\frac{18}{.9} = \frac{.9x}{.9}$$

$$x = 20$$

	Option A	Option B
What represents 25% improvement?	$R + 0.25R$	$0.25R$
What represents the final result after 15% of the original result decline?	$0.85R$	$R - 0.15R$
What represents the final result after 6% improvement?	$1.06R$	$0.6R$

A car salesman earned 5% commission on selling a \$15,000 car.

How much is the salesman's commission for that car?

$$.05(15000) = 750$$

Which choices below represent a 15% decrease?

Select ALL that apply.

Elimination Tool

A 45 to 30

$$\rightarrow .85X$$
$$\rightarrow .85(45) \stackrel{?}{=} 30$$

B 60 to 51

$$.85(60) \stackrel{?}{=} 51 \quad \checkmark$$

C 80 to 12