

Grade 8 Learning Packet #4 Answers

$\frac{3x+2}{5} = 7$	$\frac{4x}{3} - 5 = 11$	$2(3x+4) = 4x+12$	$\frac{3}{4}(x-2) = 12$
$x = 11$	$x = 12$	$x = 2$	$x = 18$
$x-5 > 2x+3$	$\frac{3(x-4)}{12} \leq \frac{2x}{3}$	$4x+3 < -1$	$4-6x \leq 2(2x+3)$
$x < -8$	$x \geq -4$	$x < -1$	$x \geq -\frac{1}{5}$
$\frac{2}{3}x - \frac{1}{2}(4x-1) \geq x+2(x-3)$		$2(x-3) \leq 3x-2$	
$x < \frac{7}{5}$		$x \geq -4$	
$5-4x \geq 17$	$\frac{2}{5}(x+3) = 6$	$\frac{2x}{5} - 9 = 6$	$2x-3 \leq 3x-2$
$x \leq -3$	$x = 12$	$x = 37.5$	$x \leq -1$
$-2 \cdot 2(x-6) \geq 61.6$		$\frac{\sqrt{5}}{37}x - 13 \geq -8$	
$x \leq -22$		$x \leq -7$	

1. Painting

$$0.20x + 10 = 50$$

$$x = 200 \text{ sq feet}$$

2. Skate rink

$$4p + 200 = 324$$

$$p = 31 \text{ people}$$

3. Milk

1,214 cartons milk

4. ranch dressing

$$2.25d + 20 = 130$$

$$d = 49 \text{ days}$$

5. pizza

\$14.50 per pizza

$$44.20 + 6.25p < 14.50p$$

6 pizzas

6. 60
or more
bags

7. a. 3 trips

b. 4 trips

c. 7 trips

d. 10 trips