

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



حل مراجعة نهائية للوحدة الثانية

موقع المناهج ← المناهج الإماراتية ← الصف التاسع المتقدم ← رياضيات ← الفصل الأول ← الملف

التواصل الاجتماعي بحسب الصف التاسع المتقدم



روابط مواد الصف التاسع المتقدم على تلغرام

[الرياضيات](#)

[اللغة الانجليزية](#)

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المزيد من الملفات بحسب الصف التاسع المتقدم والمادة رياضيات في الفصل الأول

الخطة الفصلية لمنهج Reveal ريفيل	1
كتاب الطالب Reveal ريفيل المحلد الأول	2
حل أسئلة الامتحان النهائي	3
يوربوينت حل أسئلة امتحانية منهج ريفيل وفق الهيكل الوزاري	4
حل أسئلة امتحان وفق الهيكل الوزاري ريفيل	5

Write an equation for the sentence.

Four times a number less 10 is equal to 16.

- A. $4x - 10 = 16$
- B. $4(x - 10) = 16$
- C. $10 - 4x = 16$
- D. $4x + 10 = 16$

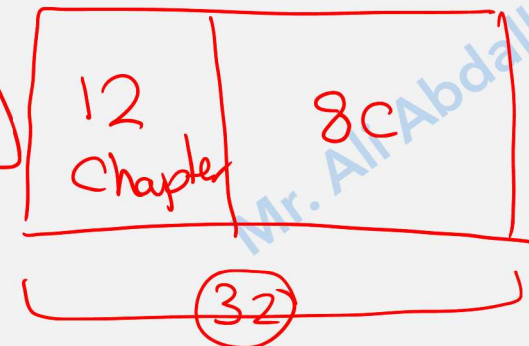
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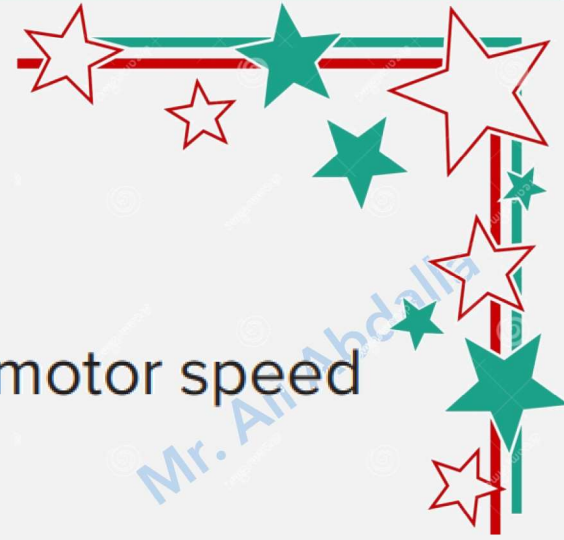
$$4x - 10 = 16$$

READING Etu has read 12 of the 32 chapters in his assigned book. He plans to finish the book by reading c chapters each for 8 days until the book is due. Which equation best represents the situation?

- A. $12 - 8c = 32$
- B. $12 + \frac{c}{8} = 32$
- C. $12 + 8c = 32$
- D. $12 - \frac{c}{8} = 32$

$$12 + 8c = 32$$





Translate the sentence into a formula.

MOTORS The horsepower of a motor is the product of the motor speed and the torque divided by 5252.

جواب

A. $H = \frac{M}{5252T}$ B. $H = \frac{MT}{5252}$

$$H = \frac{MT}{5252}$$

C. $H = \frac{5252}{MT}$ D. $H = \frac{5252M}{T}$



Write a sentence for the equation.

a. $6z - 15 = 45$

- A. Six times a number z , minus fifteen equals forty-five.

$$6 \cdot z - 15 = 45 \quad \checkmark$$

- B. Six times the quantity of a number z minus fifteen equals forty-five.

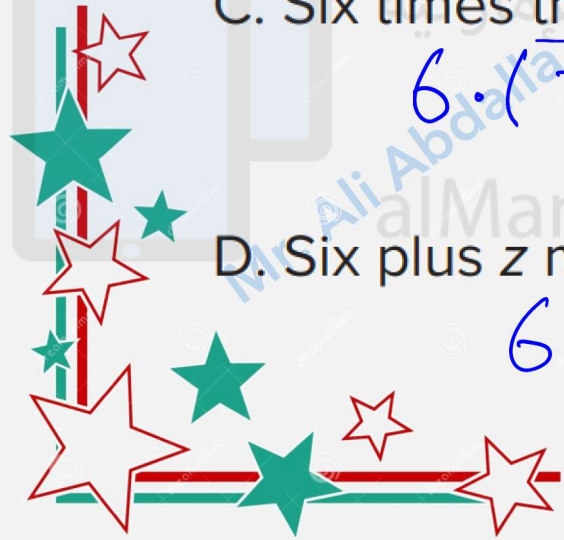
$$6 \cdot (z - 15) = 45$$

- C. Six times the difference of a number z and fifteen equals forty-five.

$$6 \cdot (z - 15) = 45$$

- D. Six plus z minus fifteen equals forty-five.

$$6 + z - 15 = 45$$



b. $(y + 3)^2 = 25$

A. y plus 3 squared is 25.

$y + 3^2 = 25$ ✗

B. y squared plus 3 is 25.

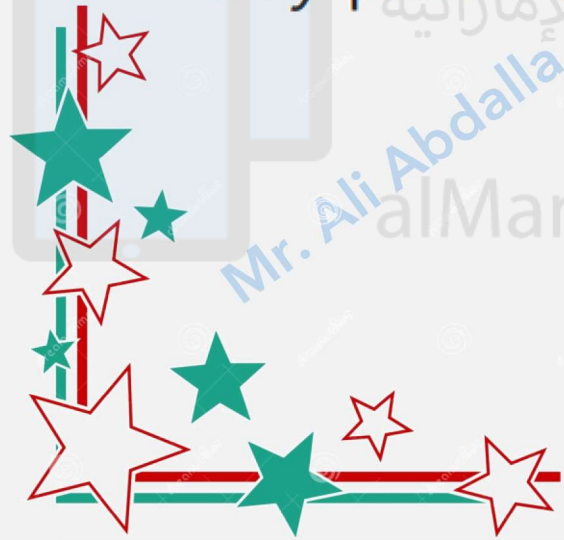
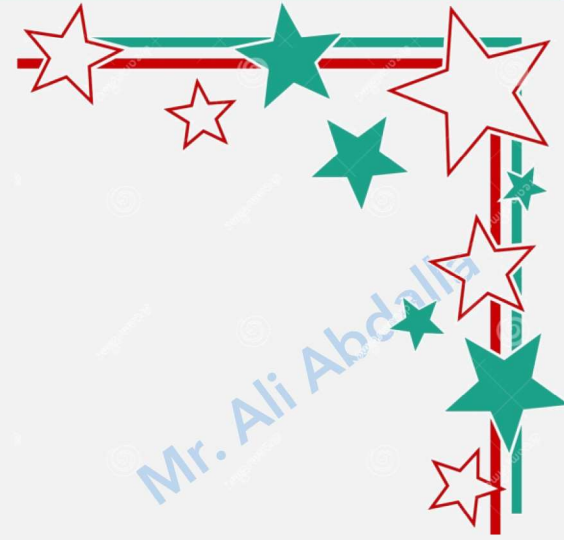
$y^2 + 3 = 25$ ✗

● C. The quantity y plus 3 squared is 25.

$(y + 3)^2 = 25$ ✓

D. y plus 3 is 25.

$y + 3 = 25$ ✗



Write an equation for each sentence.

1. Two added to three times a number m is the same as 18.

$$2 + 3m = 18$$

2. The product of five and the sum of a number x and three is twelve.

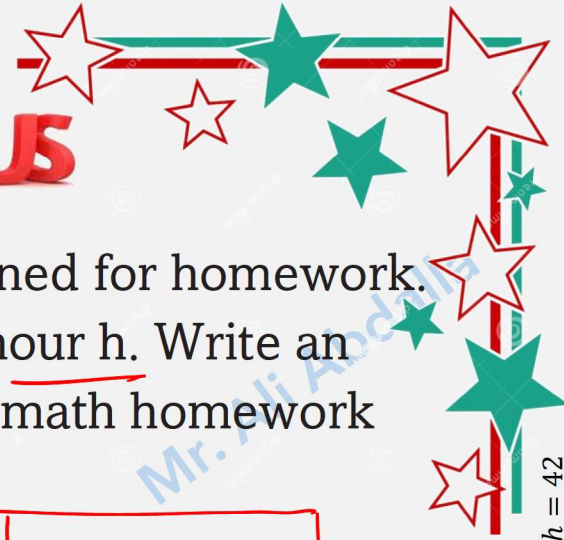
$$5 \cdot (x + 3) = 12$$

3. The quotient of 24 and x equals 14 minus 2 times x .

$$\frac{24}{x} = 14 - 2x$$

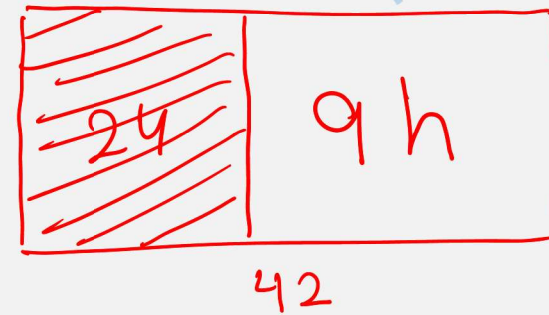
4. Nine times a number y subtracted from 85 is seven times the sum of four and y .

$$85 - 9y = 7(4 + y)$$



MATH Paulina has completed 24 of the 42 math problems she was assigned for homework. She plans to finish her homework by completing 9 math problems each hour h. Write an equation to find the number of hours it will take Paulina to complete her math homework assignment.

$$24 + 9h = 42$$



$$24 + 9h = 42$$

SALES Cars and trucks are the most popular vehicles. Last year, the number of cars sold was 39,000 more than three times the number of trucks sold. There were 216,000 cars sold last year. Write an equation that can be used to find the number of trucks, t , sold last year.

$$39000 + 3t = 216000$$

$$3t + 39000 = 216000$$

Solve $\frac{2}{3} + w = 1\frac{1}{2}$. State which property of equality you used.

- A. $\frac{5}{6}$; Subtraction Property of Equality
- B. $\frac{5}{6}$; Addition Property of Equality
- C. $\frac{13}{6}$; Addition Property of Equality
- D. $\frac{13}{6}$; Subtraction Property of Equality

Handwritten solution:

$$\frac{2}{3} + w = 1\frac{1}{2} = \frac{3}{2}$$

Subtract $\frac{2}{3}$ from each side

Handwritten solution:

$$w = \frac{3}{2} - \frac{2}{3}$$

$$= \frac{9 - 4}{6}$$

$$= \frac{5}{6}$$



DOGS On average, a male bulldog weighs 15 pounds less than a male golden retriever. If the average male bulldog weighs 50 pounds, write and solve an equation to find the average weight of a male golden retriever.

- A. $50 = w - 15$; 65 pounds ✓
- ~~B. $50 = w + 15$; 35 pounds~~
- ~~C. $50 = w - 15$; 35 pounds ✓~~
- ~~D. $50 = 15 - w$; 65 pounds~~

bulldog = 50

$$\boxed{w - 15 = 50}$$

+15 +15

$$\boxed{w = 65}$$



Solve each equation:

9. $3 \cdot \frac{1}{3}v = -5 \cdot 3$

Multiply each side by 3

$$v = -15$$

10. $\frac{u}{8} = -4 \cdot 2$

Multiply each side by 8

$$u = -32$$

11. $\frac{a}{6} = -9 \cdot 6$

Multiply each side by 6

$$a = -54$$

12. $\frac{k}{5} = \frac{7}{5}$

Multiply each side by 5

$$-k = 7 \quad \times (-1)$$

$$k = -7$$

$$-\frac{k}{5} = \frac{7}{5} \quad (-5)$$

$$k = -7$$

Mr. Ali Abdalla



Identify the equation that does not belong with the other three. Justify your conclusion.

$$n - 16 = 29$$

$$+16 \quad +16$$

$$n = 45$$

$$n - 4 = 9$$

$$+4 \quad +4$$

$$n = 13$$

$$n + 14 = 27$$

$$-14 \quad -14$$

$$n = 13$$

$$12 + n = 25$$

$$-12 \quad -12$$

$$n = 13$$

$n - 16 = 29$
not belong to
the other three

PERSEVERE Determine the value for each statement below.

If $x - 9 = 12$, what is the value of $x + 1$?

$$+9 \quad +9$$

$$x = 21$$

$$x + 1 = 21 + 1 = 22$$

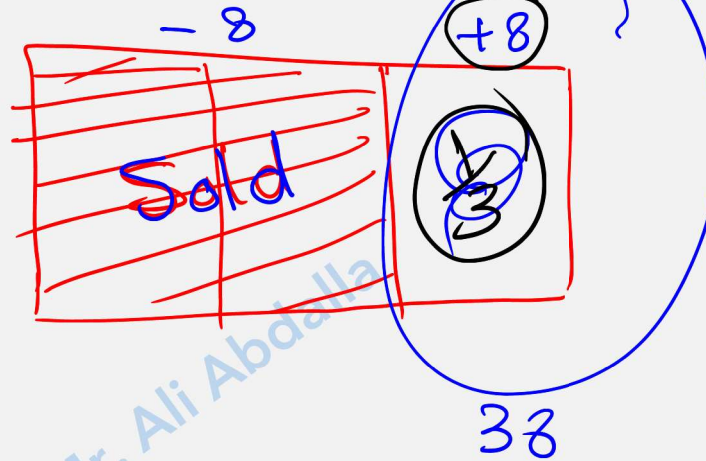
BASKETBALL A sporting goods store sold $\frac{2}{3}$ of its basketballs, but 8 were returned. Now the store has 38 basketballs. How many were there originally? Write an equation for the problem. Then solve the equation.

~~A. $\frac{2}{3}b + 8 = 38$; 45~~

~~B. $\frac{2}{3}b - 8 = 38$; 69~~

C. $\frac{1}{3}b + 8 = 38$; 90

D. $\frac{1}{3}b - 8 = 38$; 138



$$\frac{1}{3}b + 8 = 38$$

$$\quad - 8 \quad - 8$$

$$\frac{1}{3}b = 30 \Rightarrow b = 90$$

Mr. Ali Abdalla

Solve each equation for x. Assume $a \neq 0$.

$$18. \quad ax + 3 = 23$$

$$\quad \quad \quad -3 \quad -3$$

$$ax = 20 \quad \div a$$

$$x = \frac{20}{a}$$

$$19. \quad 4 = ax - 14$$

$$\quad \quad \quad +14 \quad +14$$

$$18 = ax \quad \div a$$

$$\frac{18}{a} = x$$

$$20. \quad ax - 5 = 19$$

$$21. \quad 6 + ax = -29$$

$$\quad \quad \quad -6 \quad \quad \quad -6$$

$$ax = -35 \quad \div a$$

$$x = -\frac{35}{a}$$

$$22. \quad \frac{8}{ax} - 5 = -3$$

$$\quad \quad \quad +5 \quad +5$$

$$\frac{8}{ax} = 2 \quad \cdot (ax)$$

$$8 = 2ax \quad \div 2a \Rightarrow x = \frac{8}{2a} = \frac{4}{a}$$

$$23. \quad 18 - ax = 42$$

$$\quad \quad \quad -18 \quad \quad \quad -18$$

$$-ax = 24 \quad \div (-a)$$

$$x = -\frac{24}{a}$$

$$24. \quad 5 = \frac{5}{ax} + 1$$

$$\quad \quad \quad -1 \quad \quad \quad -1$$

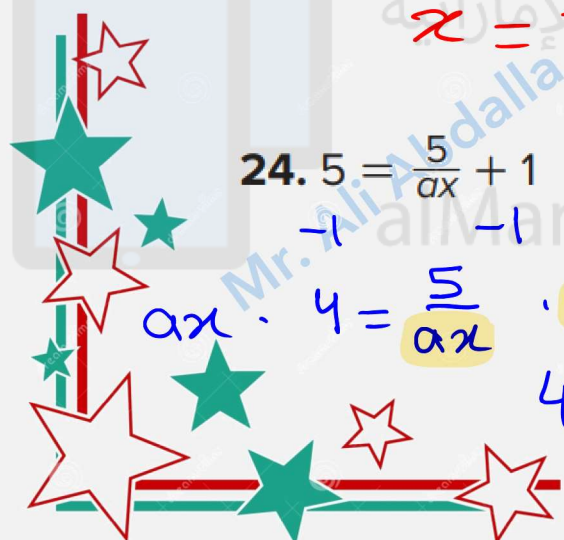
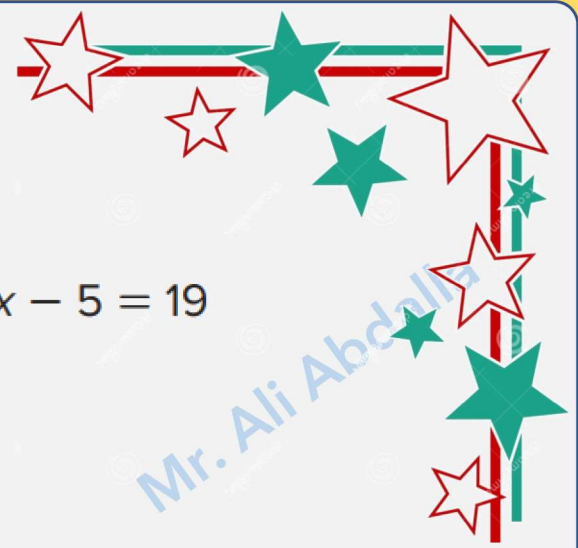
$$ax \cdot 4 = \frac{5}{ax} \cdot ax$$

$$4ax = 5$$

$$x = \frac{5}{4a}$$

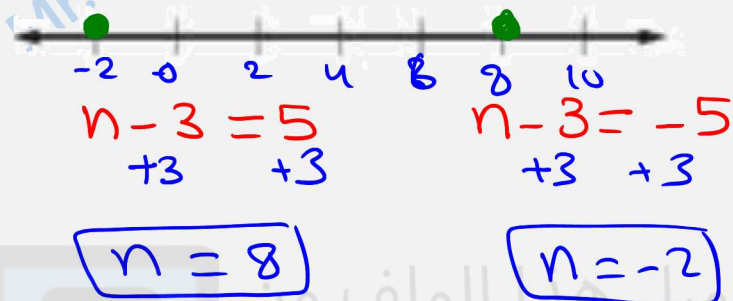
$$25. \quad -3 = ax + 11$$

$$26. \quad -7 = -ax - 16$$

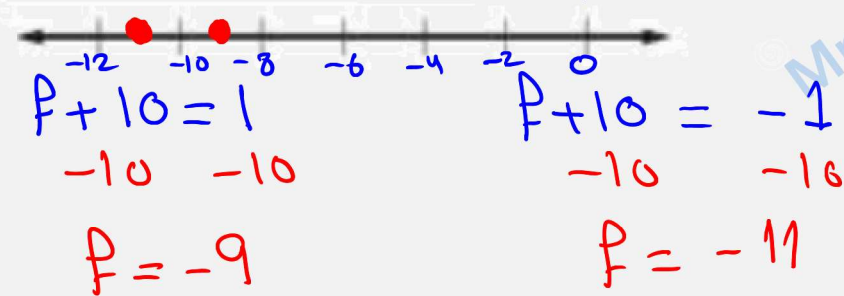


Solve each equation. Then graph the solution set.

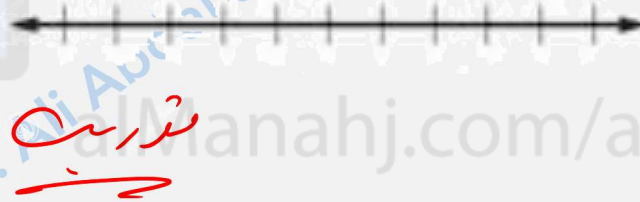
1. $|n - 3| = 5$



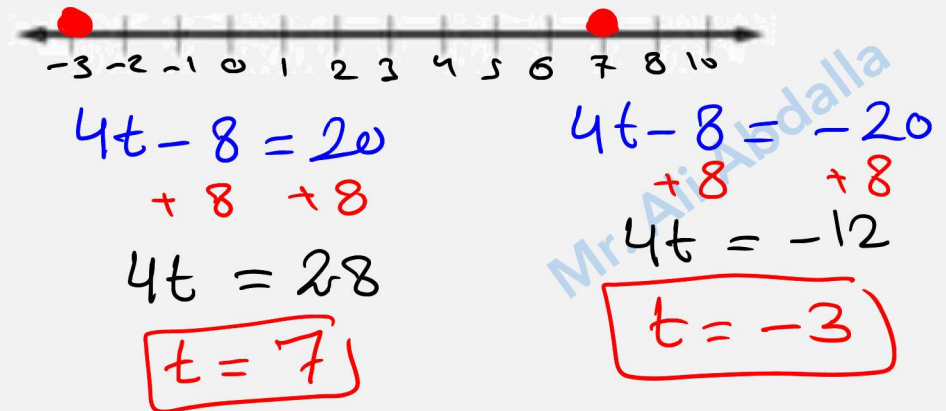
2. $|f + 10| = 1$



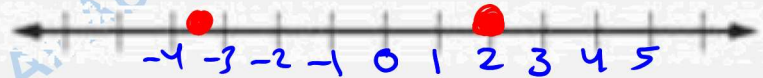
3. $|v - 2| = -5$



4. $|4t - 8| = 20$



5. $|8w + 5| = 21$



$$\begin{array}{r} 8w + 5 = 21 \\ -5 \quad -5 \\ \hline 8w = 16 \\ \div 8 \\ \hline w = 2 \end{array} \qquad \begin{array}{r} 8w + 5 = -21 \\ -5 \quad -5 \\ \hline 8w = -26 \\ \hline w = -3.5 \end{array}$$

$\div 8$

$8w = 16$

$w = 2$

$8w = -26$

$w = -3.5$

7. $|x + 5| = -3$



empty set

\emptyset

6. $|6y - 7| = -1$



empty set \emptyset

8. $|-2y + 6| = 6$



empty set

Solve the proportion. If necessary, round to the nearest hundredth.

$$\frac{x}{45} = \frac{15}{25}$$

Multiply each side by 45

$$45 \cdot \frac{x}{45} = 45 \cdot \frac{15}{25}$$

$$x = 27$$

or $\frac{x}{45} = \frac{15}{25}$

$$25x = 15(45) \div 25$$

$$x = \frac{15(45)}{25} = 27$$

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Solve $\frac{n-4}{8} = \frac{3}{2}$. If necessary, round to the nearest hundredth.

A. 16

B. 9.33

C. 8

D. 4.75

$$\frac{n-4}{8} \cdot 8 = \frac{3}{2} \cdot 8$$

$$n-4 = 12 \Rightarrow n = 16$$

Solve $\frac{x}{9} = \frac{2x-3}{24}$. If necessary, round to the nearest tenth.

$$24x = 9(2x-3)$$

$$24x = 18x - 27$$

$$-18x \quad -18x$$

$$6x = -27 \Rightarrow x = -\frac{27}{6} = -\frac{9}{2} = -4.5$$

Solve $\frac{x}{12} = \frac{2x-5}{18}$. If necessary, round to the nearest hundredth.

A. -10

B. -3.75

C. 0.83

D. 10

$$18x = 12(2x-5)$$

$$18x = 24x - 60$$

$$-18x \quad -18x$$

$$0 = 6x - 60$$

$$+60 \quad +60$$

$$60 = 6x \Rightarrow x = 10$$

GEOGRAPHY Parts of Mexico City are sinking at a rate of 140 centimeters every 5 years. If this rate remains constant, how many centimeters will the city sink in the next 12 years?



Let x represent the number of centimeters.

$$\frac{\text{city sinks } 140 \text{ cm}}{\text{in } 5 \text{ years}} = \frac{\text{city sinks } x}{\text{in } 12 \text{ years}}$$

$$12 \cdot \frac{140}{5} = \frac{x}{12} \cdot 12$$

$$x = 336 \text{ cm}$$

$$\begin{array}{l} \downarrow \\ 140 \text{ cm} \rightarrow 5 \text{ year} \\ x \rightarrow 12 \text{ year} \end{array}$$



MIXTURE Oscar makes fruit punch to sell from his food truck by mixing 8 parts cranberry juice to 3 parts pineapple juice. How many cups of pineapple juice would Oscar need to mix with 48 cups of cranberry juice to make his punch?

$$\frac{8}{48} = \frac{3}{x}$$

$$8x = 3(48)$$

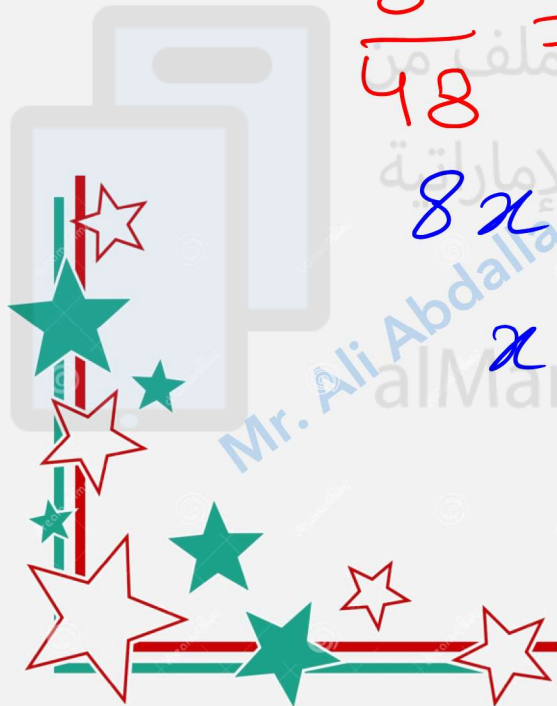
$$x = \frac{3(48)}{8}$$

$$= 18$$

8 part Cranberry → 3 part pineapple
48 ————— → x

$$3 \cdot \frac{x}{3} = \frac{48}{8} \cdot 3$$

$$x = 18$$



Solve each equation or formula for the variable indicated.

1. $x - 2y = 1$, for y

$$-2y = 1 - x \div (-2)$$

$$y = \frac{1 - x}{-2}$$

$$y = \frac{x - 1}{2}$$

3. $7f + g = 5$, for f

2. $d + 3n = 1$, for n

$$3n = 1 - d \div 3$$

$$n = \frac{1 - d}{3} = \frac{1}{3} - \frac{d}{3}$$

4. $3c - 8d = 12$, for c

$$+ 8d \quad + 8d$$

$$3c = 12 + 8d \div 3$$

$$c = 4 + \frac{8}{3}d$$