شرح هوم وورك الويك الثاني

Homework: Week 2 Homework

Score: 1 of 1 pt 1 of 45 (45 complete)

2.1.1

Determine whether 19 is a solution of the equation $x + 16 = 35$.

Is 19 a solution?

- (✓) Yes
- ( ) No

المطلوب هل العدد يحقق المعادلة ام لا!!

نعوض عن ال xبالقيمة المعطاة

19+16=35

35=35

Homework: Week 2 Homework

Score: 1 of 1 pt 2 of 45 (45 complete)

2.1.19

Solve for x using the addition principle. Don't forget to perform a check.

$x + 8 = -12$

The solution is $x = -20$.
(Simplify your answer. Type an integer or a fraction.)

ننقل ٨ للطرف الاخر لكي نصل لقيمة ال x

X=-12-8

X=-20

Homework: Week 2 Homework

Score: 1 of 1 pt 3 of 45 (45 complete)

2.1.23

Solve and check.

$a - 8 = -17$

The solution is $a = -9$.
(Type an integer or a simplified fraction.)

Homework: Week 2 Homework

Score: 1 of 1 pt 4 of 45 (45 complete)

2.1.31

Solve the following equation by using the addition principle. Check the solution.

$x + \frac{2}{5} = 2$

The solution is $x = \frac{8}{5}$. (Type an integer, proper fraction, or mixed number.)

Homework: Week 2 Homework

Score: 1 of 1 pt

5 of 45 (45 complete)

2.1.41

Solve the following equation by using the addition principle. Check the solution.

$-\frac{1}{4}+y=-\frac{4}{5}$

The solution is $-\frac{11}{20}$. (Type an integer or a simplified fraction.)

Homework: Week 2 Homework

Score: 1 of 1 pt

6 of 45 (45 complete)

2.1.43

Solve using the addition principle. Don't forget to perform a check.

$7.4=x+1.3$

The solution is x = 6.1.
(Type an integer or a decimal.)

Homework: Week 2 Homework

Score: 1 of 1 pt

7 of 45 (45 complete)

2.1.49

Solve using the addition principle. Don't forget to perform a check.

$2\frac{1}{4}+x=5$

The solution is $x=\frac{11}{4}$.
(Type an integer or a fraction.)

Homework: Week 2 Homework

Score: 1 of 1 pt

8 of 45 (45 complete)

2.2.1

Solve using the multiplication principle. Don't forget to check.

$4x=8$

The solution is x = 2.

نقسم على معامل x

لكي نصل لقيمة ال x

4x\4=8\4

X=2

Homework: Week 2 Homework

Score: 1 of 1 pt

9 of 45 (45 complete)

2.2.5

Solve using the multiplication principle. Don't forget to perform a check.

$12=6x$

The solution is x = 2.

Homework: Week 2 Homework

Score: 1 of 1 pt

10 of 45 (45 complete)

2.2.11

Solve using the multiplication principle. Don't forget to perform a check.

$11x = -99$

The solution is $x = -9$.

Homework: Week 2 Homework

Score: 1 of 1 pt

11 of 45 (45 complete)

2.2.21

Solve using the multiplication principle. Don't forget to perform a check.

$\frac{3}{7}x = 15$

The solution is $x = 35$.

Homework: Week 2 Homework

Score: 1 of 1 pt

12 of 45 (45 complete)

2.2.25

Solve the equation using the multiplication principle. Check your solution.

$\frac{-x}{7} = 8$

$x = -56$ (Simplify your answer.)

Homework: Week 2 Homework

Score: 1 of 1 pt

15 of 45 (45 complete)

2.3.11

Solve. Don't forget to check.

$-113 = 7 + 10x$

The solution is $x = -12$.
(Type an integer or a simplified fraction.)

Homework: Week 2 Homework

Score: 1 of 1 pt

18 of 45 (45 complete)

2.3.27

Solve.

$x + \frac{1}{2}x = 18$

The solution is $x = 12$.
(Type an integer or a simplified fraction.)

Homework: Week 2 Homework

Score: 1 of 1 pt

13 of 45 (45 complete)

2.2.57

Solve the following equation. Check your solution.

$0 \cdot x = 12$

Select the correct answer below and, if necessary, fill in the answer box to complete your choice.

A. There is one solution, x = .
B. The solution is all real numbers.
C. There is no solution.

نضرب الاكس ب صفر والناتج 0

0*x=12

0=12طبعا لا يوجد حل الجواب لأنه من المستحيل

12=0

Homework: Week 2 Homework

Score: 1 of 1 pt

16 of 45 (45 complete)

2.3.21

Solve.

$7x + 11x = 72$

حل معادله عادية

18x=72

18\18x=72\18

X=4

The solution is x = 4.
(Type an integer or a simplified fraction.)

Homework: Week 2 Homework

Score: 1 of 1 pt

19 of 45 (45 complete)

2.3.39

Solve.

$6 - 4x = 7x - 9x + 8$

x = −1
(Type an integer or a simplified fraction.)

Homework: Week 2 Homework

Score: 1 of 1 pt

14 of 45 (45 complete)

2.3.1

Solve.

$7x + 8 = 43$

The solution is x = 5.
(Type an integer or a simplified fraction.)

Homework: Week 2 Homework

Score: 1 of 1 pt

17 of 45 (45 complete)

2.3.23

Solve.

$-4x - 12x = 80$

The solution is x = −5.
(Type an integer or a simplified fraction.)

Homework: Week 2 Homework

Score: 1 of 1 pt

28 of 45 (45 complete)

2.5.5

Solve.

What number is 65% of 800?

65% of 800 = 520

(Type an integer or a decimal.)

نحول النسبة المئوية اول شيء

65%\100=0.65

X=0.65*800

X=520

Homework: Week 2 Homework

Score: 1 of 1 pt

23 of 45 (45 complete)

2.3.89

Solve the following equation.

$19x - 4 - 11x = 2(4x - 3) + 2$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

A. The solution is x = . (Simplify your answer.)

B. Every real number is a solution.

C. There is no solution.

Homework: Week 2 Homework

Score: 1 of 1 pt

26 of 45 (45 complete)

2.4.21

Solve for the indicated letter.

$b = 6 - a$, for a

The solution is a = 6 − b .

Homework: Week 2 Homework

Score: 1 of 1 pt

29 of 45 (45 complete)

2.5.9

Solve.

11% of what number is 0.4?

11% of 3.6 is 0.4.

(Round to the nearest tenth.)

نحول النسبة المئوية

11%\100=0.11

0.11*x=0.4

X=3.6

Homework: Week 2 Homework

Score: 1 of 1 pt

27 of 45 (45 complete)

2.5.1

What percent of 70 is 14?

20 % (Type an integer or a decimal.)

X*70=14

X=14\70

X=0.20

نضرب الناتج *١٠٠ لانو المطلوب نسبة مئوية

X=0.20*100=20%

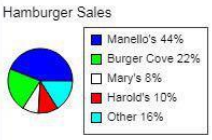
Homework: Week 2 Homework

Score: 1 of 1 pt

30 of 45 (45 complete)

2.5.29

The circle graph shows hamburger sales by various restaurants in a recent year. The total sales were $40 billion.



What were the total hamburger sales by Manello's, in dollars?

A. $6.40 billion
B. $17.60 billion
C. $1760 billion
D. $4.00 billion

Homework: Week 2 Homework

Score: 1 of 1 pt

31 of 45 (45 complete)

2.6.GS3

The sum of two consecutive mile markers on the interstate is 533. Find the numbers on the markers.

Let x equal the first mile marker. Write an expression for the second mile marker.

$x+1$

Next, translate the statement, "The sum of two consecutive mile markers on the interstate is 533" into mathematical symbols.

$x+(x+1)=533$

Collect like terms.

$2x+1=533$

Subtract from both sides of the equation.

$$2x+1-1 = 533-1$$
$$2x = 532$$

Divide both sides of the equation.

$$\frac{2x}{2} = \frac{532}{2}$$
$$x = 266$$

If $x=266$, then $x+1=267$.

The mile markers are numbered 266 and 267.

Homework: Week 2 Homework

Score: 1 of 1 pt

45 of 45 (45 complete)

2.8.39

The width of a rectangle is fixed at 5 cm. Determine (in terms of an inequality) those lengths for which the area will be less than 110 cm^2.

The length must be less than 22 cm.
(Simplify your answer.)

The solution is {L | L < 22 cm}.
(Simplify your answer.)

110\5=22

نقسم المساحة على العرض لكي نصل للطول

Homework: Week 2 Homework

Score: 1 of 1 pt

44 of 45 (45 complete)

HW Score:

2.8.23

A metal stays solid at Fahrenheit temperatures below 1725.4°. Determine (in terms of an inequality) those Celsius temperatures for which the metal stays solid. Use the formula $F = \frac{9}{5}C + 32$.

The solution set is {C|C < 940.8 °}.
(Round to the nearest tenth.)

بالمعطى قيمة F نعوض عنها بالمعادلة المعطاة لكي نصل لقيمة C

1726.4=9/5 C+32

Homework: Week 2 Homework

Score: 1 of 1 pt

43 of 45 (45 complete)

2.8.3

Translate to an inequality. Use the variable x.

The baby weighs more than 7 kilograms (kg).

The inequality is x > 7 kg.

Homework: Week 2 Homework

Score: 1 of 1 pt

42 of 45 (45 complete)

2.7.79

Solve the following inequality using the addition principle and the multiplication principle.

$5(r-10)+2<6(r+2)-58$

Select the correct choice below and fill in the answer box to complete your choice.

(Type an integer or a fraction.)

- A. The solution set is $\{r|r > -2\}$.
- B. The solution set is $\{r|r \leq \square\}$.
- C. The solution set is $\{r|r < \square\}$.
- D. The solution set is $\{r|r \geq \square\}$.

Homework: Week 2 Homework

Score: 1 of 1 pt | 41 of 45 (45 complete) | **HW**

2.7.63

Solve using the addition and multiplication principles.

$9 - 5x \leq 2 - 4x$

Select the correct choice below and fill in the answer box within your choice.

(Simplify your answer.)

- A. The solution set is $\{x \mid x < \ \}$.
- B. The solution set is $\{x \mid x \geq 7\}$.
- C. The solution set is $\{x \mid x > \ \}$.
- D. The solution set is $\{x \mid x \leq \ \}$.

Homework: Week 2 Homework

Score: 1 of 1 pt | 40 of 45 (45 complete)

2.7.29

Solve using the addition principle and complete the answer in set-builder notation.

$y + \frac{1}{5} \leq \frac{7}{10}$

Select the correct choice below and fill in the answer box within your choice.

(Type an integer or a simplified fraction.)

- A. The solution set is $\{y \mid y \geq \ \}$.
- B. The solution set is $\{y \mid y < \ \}$.
- C. The solution set is $\{y \mid y \leq \frac{1}{2}\}$.
- D. The solution set is $\{y \mid y > \ \}$.

Homework: Week 2 Homework

Save

Score: 1 of 1 pt | 39 of 45 (45 complete) | **HW Score:** 100%, 45 of 45 pts

2.7.21

Question Help

Solve using the addition principle.

$2x + 7 > x + 11$

Select the correct choice below and fill in the answer box within your choice.
(Simplify your answer.)

- A. The solution set is $\{x \mid x \geq \ \}$.
- B. The solution set is $\{x \mid x < \ \}$.
- C. The solution set is $\{x \mid x > 4\}$.
- D. The solution set is $\{x \mid x \leq \ \}$.

Homework: Week 2 Homework

Score: 1 of 1 pt | 32 of 45 (45 complete)

2.6.3

A 255-inch board is cut into two pieces. One piece is four times the length of the other. Find the lengths of the two pieces.

The short piece is 51 inches long.

The long piece is 204 inches long.

قطعه تم تقسيمها لقسمين الاولى ٤ اضعاف الاخرى

4x+x=255

5x=255

X=51

so 4x=51*4=204

Homework: Week 2 Homework

Score: 1 of 1 pt 33 of 45 (45 complete)

2.6.9

The numbers on two consecutively numbered gym lockers have a sum of 137. What are the locker numbers?

The locker numbers are 68,69.
(Use a comma to separate answers.)

رقمين مجموعهما ١٣٧

137/2=68.5

69,68

Homework: Week 2 Homework

Score: 1 of 1 pt 34 of 45 (45 complete)

2.6.13

The sum of three consecutive odd integers is 207. What are the integers?

The first integer is 67.

The second integer is 69.

The third integer is 71.

مجموع ٣اعداد ٢٠٧

X=first number

x+2=second number

x+4=third number

x+x+2+x+4=207

3x+6=207____3x=201

X=67__x+2=69___x+4=71

Homework: Week 2 Homework

Score: 1 of 1 pt 35 of 45 (45 complete) **HW Score:** 100%, 45 of 45 pts

2.6.23 Question Help

In a triangle, the measure of the first angle is three times the measure of the second angle. The measure of the third angle is 60° more than the measure of the second angle. Use the fact that the sum of the measures of the three angles of a triangle is 180° to find the measure of each angle.

The measure of the first angle is 72°.

The measure of the second angle is 24°.

The measure of the third angle is 84°.

طريقة الحل

X+y+z=180

3y+z=180

-y+z=60

نحل المعادلة بطريقة الجمع والحذف

وتظهر لنا ٣قيم بالترتيب

Homework: Week 2 Homework

Score: 1 of 1 pt

36 of 45 (45 complete)

2.7.GS10

Solve.

$7y + 2 \leq -2 + 6y$

What is a good goal for solving inequalities such as this one?

- A. Look for integer values of the variable that make the inequality true.
- B. Bring all terms to one side.
- C. Completely factor each side.
- D. Isolate the variable on one side. ✔

Which of the following operations is a good first step toward achieving this goal?

- A. Subtract $7y + 2$ from both sides.
- B. Divide both sides by 6.
- C. Subtract $6y$ from both sides. ✔
- D. Subtract 2 from both sides.
- E. Divide both sides by 7.

Subtract $6y$ from both sides of the inequality.

$7y + 2 \leq -2 + 6y$	Begin with the given inequality.
$7y + 2 - 6y \leq -2 + 6y - 6y$	Subtract.
$y + 2 \leq -2$	Simplify.

What is a good next step? Select the correct choice and fill in the answer box to complete your choice.

- A. Divide both sides of the inequality by ☐.
- B. Subtract 2 from both sides of the inequality. ✔

Now, subtract 2 from both sides of the inequality.

$y + 2 - 2 \leq -2 - 2$	
$y \leq -4$	Simplify.

Therefore the solution set is $\{y \mid y \leq -4\}$.

Homework: Week 2 Homework

Score: 1 of 1 pt

37 of 45 (45 complete)

2.7.1

Determine whether each number is a solution of the inequality $x > -18$.

a) 18 **b)** 0 **c)** -18 **d)** 21 **e)** 20.8

a) Is 18 a solution of the inequality?

- yes ✔
- no

b) Is 0 a solution of the inequality?

- yes ✔
- no

c) Is -18 a solution of the inequality?

- yes
- no ✔

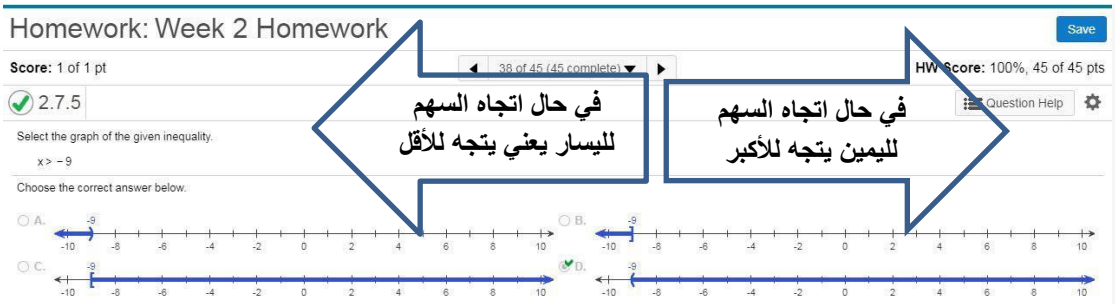
d) Is 21 a solution of the inequality?

- no
- yes ✔

e) Is 20.8 a solution of the inequality?

- no
- yes ✔

المطلوب هنا التحقق من الاعداد المعطاة هل تحقق المتراجحة ام لا



هنا المطلوب تمثيل المتراجحة على خط الاعداد

)اشارة القوس هذا تعني ان المتراجحه بدون مساواة <,>

[اشارة القوس هذا تعني ان المتراجحه بها مساواة والعدد يدخل من ضمن فترة الحل