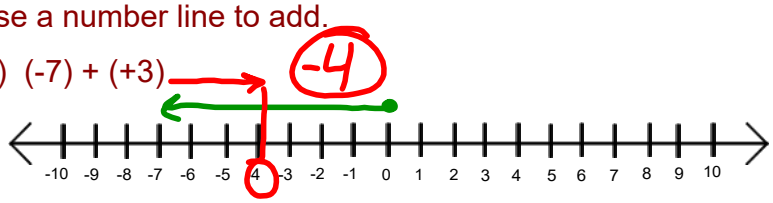
Warm Up Grade 7

Sept 10

1) Use a number line to add.

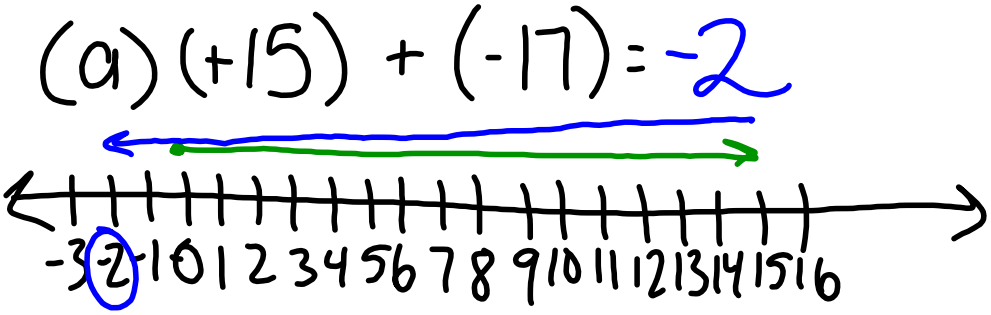
a) (-7) + (+3)



2) Fred earns $15 but then uses his credit card and spends $17.

a) Write the above as a sum?

b) Explain Fred's final money situation.



Get out your homework!!!!

We will go over it together!

Adding Integers (A) Answers

Use an integer strategy to find each answer.

(-11) + (-5) =
= (-16)

12 + 2 =
= 14

10 + (-13) =
= (-3)

(-8) + (-5) =
= (-13)

13 + 14 =
= 27

(-7) + 15 =
= 8

11 + 15 =
= 26

(-3) + (-1) =
= (-4)

(-12) + (-1) =
= (-13)

(-2) + (-15) =
= (-17)

10 + (-12) =
= (-2)

(-5) + 7 =
= 2

13 + (-4) =
= 9

12 + 2 =
= 14

12 + (-13) =
= (-1)

(-9) + (-1) =
= (-10)

9 + (-6) =
= 3

3 + (-3) =
= 0

2 + (-13) =
= (-11)

14 + (-9) =
= 5

(-9) + 2 =
= (-7)

(-3) + 2 =
= (-1)

(-14) + (-5) =
= (-19)

(-1) + 7 =
= 6

(-3) + (-3) =
= (-6)

3 + 1 =
= 4

(-8) + 13 =
= 5

10 + (-1) =
= 9

(-13) + (-7) =
= (-20)

(-15) + 12 =

Rules for Adding Integers

When you **add two positive** integers,
add the numbers and your answer will be positive.
Ex. (+6) +(+8) = +14 (+11) + (+9) = +20

When you **add two negative** integers,
add the numbers and your answer will always be negative.
Ex. (-5) + (-7) = -12 (-8) + (-10) = -18

When you **add a positive integer and a negative integer**,
subtract the numbers, and **keep the sign of the larger number**.
Ex. (-6) + (+8) = +2 (+4) + (-9) = -5
(+9) + (-12) = -3 (-15) +(+20) = +5

Add the following using the rules.

(a) +12 + (-9) = +3
12 - 9 = 3

(b) (-8) + (-3)= -11

(c) (-15) + (-6) = -21

(d) (+14) + (-4) = +10
14 - 4 = 10

(e) +6 + (-12) = -6
12 - 6 = 6

(f) (-25) + (+16) = -9

(g) (-17) +(-7) = -24

(h) (+30) + (-21) = +9
30 - 21 = 9

(i) (-8) + (+12) = +4
12 - 8 = 4

(j) +6 + (+8) = +14

(k) (-16) + (+14) = -2
16 - 14 = 2

(l) (+20) + (-7) = +13
20 - 7 = 13

Homework - Worksheet
Do the work on your own loose leaf

4. Use coloured tiles to add.
Draw pictures of the tiles you used.

a) $(+4) + (-1)$ **b)** $(-3) + (-2)$
c) $(-5) + (+1)$ **d)** $(+6) + (+3)$
e) $(-4) + (-8)$ **f)** $(+4) + (+8)$

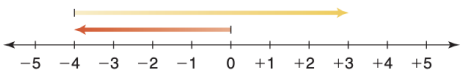
5. Use a number line to add.
Write the addition equations.

a) $(+3) + (+2)$ **b)** $(-5) + (-1)$
c) $(-10) + (+8)$ **d)** $(+6) + (-5)$
e) $(-8) + (+8)$ **f)** $(-5) + (+12)$

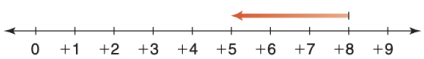
6. **a)** Add. $(+4) + (-5)$

8. **a)** Write the addition equation modelled by each number line.
b) Describe a situation that each number line could represent.

i)



ii)



9. **Assessment Focus** Is each statement always true, sometimes true, or never true?
Use a number line to support your answers.

a) The sum of two opposite integers is 0.
b) The sum of two positive integers is negative.
c) The sum of two negative integers is negative.
d) The sum of a negative integer and a positive integer is negative.