

Math 20, Tuesday, July 1

Return Checkpoints

Warm-up problems / homework check-ins

Q's on 1.6, 2.1, 2.2

New materials 2.3, 2.4, 2.5

Hand out - Scavenger Hunt
Mission #1

Q's 1.6

29.

Russia

- Canada fewer than Russia
- ~~us~~ us has fewer than Canada

~~Q, B, 42, 949~~

$$\begin{array}{r} 3, 287, 243 \\ - 2, 342, 949 \\ \hline \end{array}$$

$$\begin{array}{r} 944, 294 \text{ sq miles of forest in Canada} \\ - 71, 730 \\ \hline 872, 564 \end{array}$$

The US has 872,564 square miles of forest.

37.



$$\begin{array}{r} 350 \overline{) 9,800} \\ \underline{253} \\ 35 \overline{) 980} \\ \underline{70} \end{array}$$

$$\begin{array}{r}
 \overset{1}{253} \text{ gallons} - 1 \text{ coat} \\
 \times 2 \\
 \hline
 506 \text{ gallons}
 \end{array}$$

506 gallons of paint are needed.

$$\begin{array}{r}
 28 \text{ gallons} \\
 \times 2 \\
 \hline
 56
 \end{array}$$

It would take 56 gallons to paint the room.

$$\begin{array}{r}
 \overset{2}{280} \\
 - 175 \\
 \hline
 105 \\
 - 105 \\
 \hline
 0
 \end{array}$$

$$\begin{array}{r}
 28 \\
 35 \overline{) 980} \\
 \underline{70} \\
 280 \\
 - 280 \\
 \hline
 0
 \end{array}$$

2.1 83, - 31 lengths

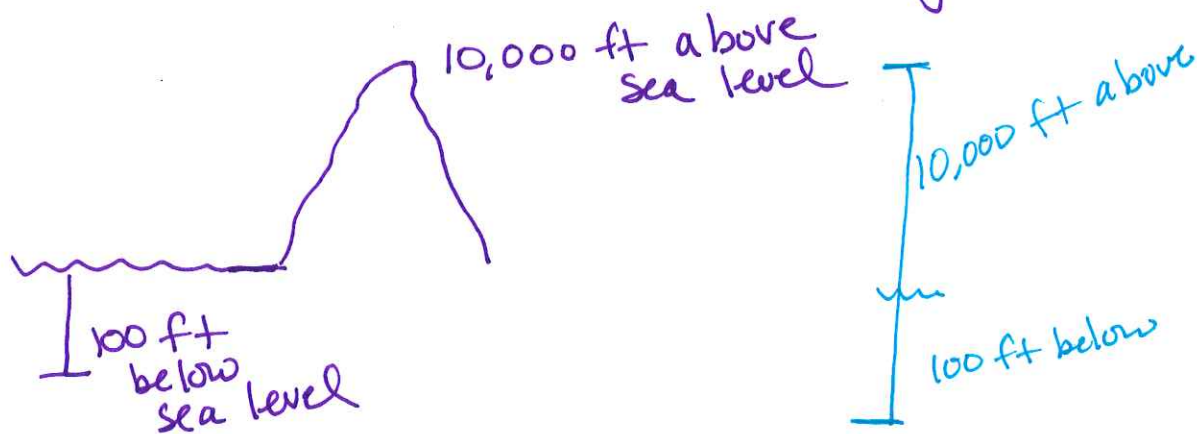
85
88

85.

88.

2.2

Section 2.3 - Subtracting Integers



$$10,000 - (-100) \leftarrow \begin{array}{l} \text{subtract a} \\ \text{negative: you} \\ \text{add} \end{array}$$

$$10,000 - (-100)$$

$$= 10,100 \text{ feet is the difference in elevation}$$

$$14 - 6 = 8$$

$$14 - (-6) = 20$$

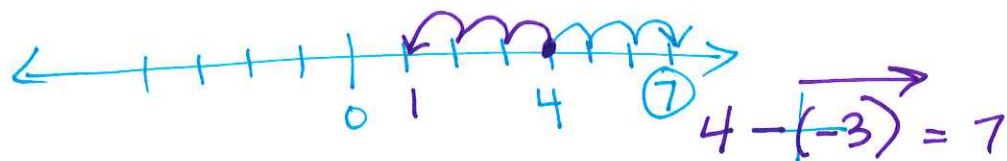
$$9 - 10 = -1$$

$$9 - (-10) = 19$$

$$4 - 3$$

$$4 - 3 = 1$$

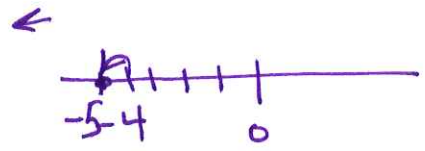
$$4 + (-3) = 1$$



ex: ~~20~~ $-2 + (-3)$
 $= -5$

$$22. \quad -4 - 1 = -5$$

$\begin{array}{c} \uparrow \\ \text{spend} \\ \$ \end{array}$
 $\begin{array}{c} \uparrow \\ \text{spend} \\ \$ \end{array}$



$$24. \quad -7 - 7 = -14$$

$$-7 + (-7) = -14$$

$\begin{array}{c} \uparrow \\ \text{spend} \end{array}$
 $\begin{array}{c} \uparrow \\ \text{spend} \end{array}$

$$-7 - (-7) = 0$$

$$26. \quad 3 - (-8) = 11$$

$$28. \quad 10 - (-5) = 15$$

$$-7 - (-3) = -4$$

$$-12 - (-8) = -4$$

$$30. \quad \begin{array}{c} 8 \\ \text{have} \end{array} - \begin{array}{c} 32 \\ \text{spend} \end{array} = -24$$

$$38. \quad -3 - (-3) - 10$$

$$= \begin{array}{c} -3 \\ \text{spend} \end{array} + \begin{array}{c} 3 \\ \text{get} \end{array} - \begin{array}{c} 10 \\ \text{spend} \end{array}$$

$$= 0 - 10$$

$$= -10$$

① Change double negatives to addition

$$40. \quad 16 - 14 - (-9)$$

$$= 16 - 14 + 9$$

$$= \underline{2} + 9 = 11$$

Subtracting Integers (A)

Use an integer strategy to find each answer.

$$\begin{aligned} (-32) - (-27) &= \\ -32 + 27 &= -5 \\ \text{spend have} & \end{aligned}$$

$$\begin{aligned} 15 - (-14) &= \\ 15 + 14 &= 29 \end{aligned}$$

$$\begin{aligned} 28 - (-15) &= \\ 43 & \end{aligned}$$

$$24 - (-49) = 73$$

$$(-44) - 24 = -68$$

$$48 - (-6) = 54$$

$$18 - 28 = -10$$

$$(-32) - (-21) = -11$$

$$(-5) - (-30) = 25$$

$$46 - 11 = 35$$

$$\begin{aligned} (-26) - 3 &= \\ \text{spend spend} & -29 \end{aligned}$$

$$\begin{aligned} 7 - (-37) &= \\ 7 + 37 &= 44 \end{aligned}$$

$$\begin{aligned} 31 - 16 &= \\ \text{have spend} & 15 \end{aligned}$$

$$(-30) - (-36) = 6$$

$$\begin{aligned} (-31) - 34 &= \\ -65 & \end{aligned}$$

$$(-49) - (-46) = -3$$

$$18 - 17 = 1$$

$$(-48) - (-47) = -1$$

$$14 - (-20) = 34$$

$$(-33) - 39 = -72$$

$$\begin{aligned} 28 - (-20) &= \\ 28 + 20 &= 48 \\ \text{have have} & \end{aligned}$$

$$\begin{aligned} (-9) - 48 &= -57 \\ \text{spend spend} & \end{aligned}$$

$$16 - (-1) = 17$$

$$\begin{aligned} (-47) - 45 &= -92 \\ \text{spend spend} & \end{aligned}$$

$$(-31) - (-13) = -18$$

$$\begin{aligned} (-16) - 49 &= \\ -65 & \end{aligned}$$

$$(-32) - (-50) = 18$$

$$1 - (-17) = 18$$

$$8 - (-47) = 55$$

$$4 - (-8) = 12$$

Subtracting Integers (A)

Use an integer strategy to find each answer.

$$(-32) - (-27) =$$

$$(-26) - 3 =$$

$$28 - (-20) =$$

$$15 - (-14) =$$

$$7 - (-37) =$$

$$(-9) - 48 =$$

$$28 - (-15) =$$

$$31 - 16 =$$

$$16 - (-1) =$$

$$24 - (-49) =$$

$$(-30) - (-36) =$$

$$(-47) - 45 =$$

$$(-44) - 24 =$$

$$(-31) - 34 =$$

$$(-31) - (-13) =$$

$$48 - (-6) =$$

$$(-49) - (-46) =$$

$$(-16) - 49 =$$

$$18 - 28 =$$

$$18 - 17 =$$

$$(-32) - (-50) =$$

$$(-32) - (-21) =$$

$$(-48) - (-47) =$$

$$1 - (-17) =$$

$$(-5) - (-30) =$$

$$14 - (-20) =$$

$$8 - (-47) =$$

$$46 - 11 =$$

$$(-33) - 39 =$$

$$4 - (-8) =$$

Subtracting Integers (B)

Use an integer strategy to find each answer.

$1 - (-42) =$

$(-8) - 8 =$

$32 - (-41) =$

$40 - 44 =$

$(-13) - (-39) =$

$(-14) - 50 =$

$(-50) - 19 =$

$48 - (-32) =$

$(-14) - (-39) =$

$(-44) - 12 =$

$(-11) - 46 =$

$22 - 46 =$

$(-26) - 45 =$

$29 - 5 =$

$20 - (-40) =$

$27 - 49 =$

$32 - (-10) =$

$(-4) - (-37) =$

$(-21) - (-8) =$

$(-43) - 18 =$

$(-26) - 32 =$

$47 - 27 =$

$30 - 50 =$

$(-38) - 12 =$

$46 - (-31) =$

$35 - 27 =$

$(-1) - (-37) =$

$(-7) - 12 =$

$(-15) - (-25) =$

$(-41) - 12 =$