

11.3

Subtracting Integers Review

Essential Question

How are adding integers and subtracting integers related?

Review

Add.

$$1) -4 + (-15) =$$

$$2) -20 + 6 =$$

$$3) 18 + (-5) =$$

$$4) -24 + 19 =$$

$$5) -18 + (-20) =$$

SAME SIGN

- Ignore the signs
- Add numbers
- Put sign back

DIFFERENT SIGNS

- Ignore the signs
- Subtract
- Put sign back of number that "looks" the biggest

$$6) 4 + (-1) + (-5) =$$

$$7) -7 + 2 + (-1) =$$

Rule for Subtracting Integers

To subtract integers, add the opposite!

What does this mean?

Your goal is to change a subtraction problem into an addition one.

How?

Keep, Change, Change!

$$-5 - (-2)$$

Try to do the following:

Subtract.

Keep, Change, Change!

$$1) -4 - 3 =$$

$$2) 6 - (-4) =$$

$$3) 18 - 20 =$$

Practice

Subtract.

Keep, Change, Change!

$$4) -9 - 5 =$$

$$7) -8 - 9 =$$

$$5) 27 - (-8) =$$

$$8) 14 - 17 =$$

$$6) -3 - (-1) =$$

$$9) 4 - (-19) =$$

Hmmm....

Evaluate.

Only do Keep, Change, Change for subtraction!

$$1) -7 - (-12) - 14 =$$

$$2) -9 - 16 - 8 =$$

Hmmm....

Evaluate.

Only do Keep, Change, Change for subtraction!

$$3) -8 - (-6) + 4 =$$

$$4) -7 + 5 - (-6) =$$

Real-Life Application

Which continent has the greater range of elevations?

| | North America | Africa |
|-------------------|---------------|--------|
| Highest Elevation | 6198 m | 5895 m |
| Lowest Elevation | −86 m | −155 m |

To find the range of elevations for each continent, subtract the lowest elevation from the highest elevation.

