

Chapter 3 Integers

Lesson 3-2 Add Integers

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Add $-17 + 20 + (-3)$.

$$\begin{aligned} -17 + 20 + (-3) &= (-17) + (-3) + 20 \\ &= [(-17) + (-3)] + 20 \\ &= (-20) + 20 \\ &= 0 \end{aligned}$$

Commutative (+)
Associative (+)
Add.



Model with Mathematics Find the total profits or loss for each color of T-shirt.



Replay it online!



The cost and selling price for the green T-shirt can be represented by the addition expression $-8 + (-6) + 15$.

$$\begin{aligned} -8 + (-6) + 15 &= -14 + 15 \\ &= 1 \end{aligned}$$

This means that the profit for the green T-shirt is \$1.

The cost and selling price for the white T-shirt can be represented by the addition expression $-10 + (-7) + 20$.

$$\begin{aligned} -10 + (-7) + 20 &= -17 + 20 \\ &= 3 \end{aligned}$$

This means that the profit for the white T-shirt is \$3.

The cost and selling price for the black T-shirt can be represented by the addition expression $-8 + (-4) + (-3) + 18$.

$$\begin{aligned} -8 + (-4) + (-3) + 18 &= -12 + (-3) + 18 \\ &= -15 + 18 \\ &= 3 \end{aligned}$$

This means that the profit for the black T-shirt is \$3.