Finding Sums and Differences of Real Numbers

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| Find each sum. 1. $-5+ \frac{2}{5}= -\frac{23}{5}$
2. $-4+\left(-3\right)= -7$
 | Find each difference. 1. $\frac{6}{5}+ \frac{3}{2}= \frac{27}{10}$
2. $152-23=129 $
 |

1. Draw a representation of the word problem below.

An eagle starts flying off the cliff at an elevation of 42 ft. Elevation is the distance above sea level. The eagle flies 144 ft. high then back down 126 ft to a light pole. He then flies up 25 ft. to the top of a pine tree before he continues 65 ft. down to the brook. What is the elevation at the brook?

Down 65 ft

Up 144 ft

42 ft.

![C:\Users\Owner\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\V89IXKJW\MP900401351[1].jpg]() ![C:\Users\Owner\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\8PAI6740\MC900058208[1].wmf]()

Up 25 ft

Down 126ft

$$42+144-126+25-65=20 feet$$

Finding products and Quotients of Real Numbers

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| Find each product. 1. $-8\left(12\right)= -96$
2. $10\left(-2.5\right)= -25$
 | 1. $8\left(-\frac{1}{4}\right)= -2$
2. $\frac{2}{11}\left(-\frac{11}{2}\right)= -1$
 | Find each quotient. 1. $20 ÷ \frac{1}{4}=80$
2. $-5 ÷\left(-\frac{5}{3}\right)= 3$
 | 1. $\frac{9}{10} ÷ \frac{3}{5}=\frac{3}{2} $
2. $15 ÷\left(-3\right)= -5$
 |

1. Determine whether each sentence is *always, sometimes,* or *never* true. Give your reasoning.
2. The product of a number and its reciprocal is -1.

Never, the product is 1, not -1

1. The quotient of a nonzero number and its opposite is -1.

Always; the quotient is -1.

1. If the product of two fractions is negative, then their quotient is positive.

Never; the product and quotient will be the same sign.