

Multiplying & Dividing Rational #s ^{12th}

Key words:

Multiply	Divide
<ul style="list-style-type: none"> • Product • OF * Total of a group with the same amount 	<ul style="list-style-type: none"> • Quotient • per / each / every • Average • How many times more

Dec 17-10:03 AM

1. The price of one share declines at a rate of \$3.50 per day. If this continues for 6 days, what is the total amount lost?

Multiply $-3.5(6) = -\$21.00$

2. A deep sea diver descends 325 feet over 10 minutes. How fast is he descending per minute?

Division:

$$\frac{-325}{10} = -32.5$$

He descends 32.5 feet each minute.

Dec 17-10:10 AM

3. A deep sea diver descends 32 feet every minute. If this continues for $\frac{1}{2}$ an hour, how far down is the diver?

30 minutes

Multiply $-32(30)$
 -960 ft

960 ft.
 below sea level

4. Mary deposits the following amounts: \$25, \$75 and \$30 and withdraws: \$15, \$25 and \$45.50. What is the average between her deposits and withdraws?

Add + Divide

Deposits: $25 + 75 + 30 = \$130$

Withdrawals: $15 + 25 + 45.50 = -85.50$

$$\begin{array}{r} 130.00 \\ - 85.50 \\ \hline 44.50 \div 6 \\ \hline \boxed{\$7.42} \end{array}$$

Dec 17-10:16 AM

ON OWN:

1. Jessie spends $\frac{1}{2}$ hour studying for each of her 5 exams. How long did she study all together in hours and minutes.

$$30 \times 5 = 150 \text{ minutes}$$

2 hours & 30 minutes

2. If you are 25 miles from home and it takes you $\frac{3}{4}$ hours to get home. How fast were you traveling in miles per hour.

$$25 \div \frac{3}{4} = 33\frac{1}{3} \text{ mph}$$

Dec 16-9:49 AM