

Warm up Grade 6

Date: <u>Dec.10</u>

Test

Thursday

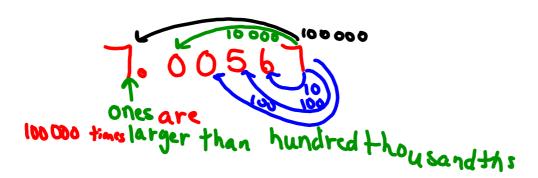
Dec 13

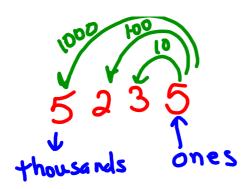
Show work to find the product and quotient. (Use estimation to determine where the decimal place must go)

2) Given 7.005 67, what are the place values for each "7" and how

ones Hundred thousandths

many times larger is one to the other?







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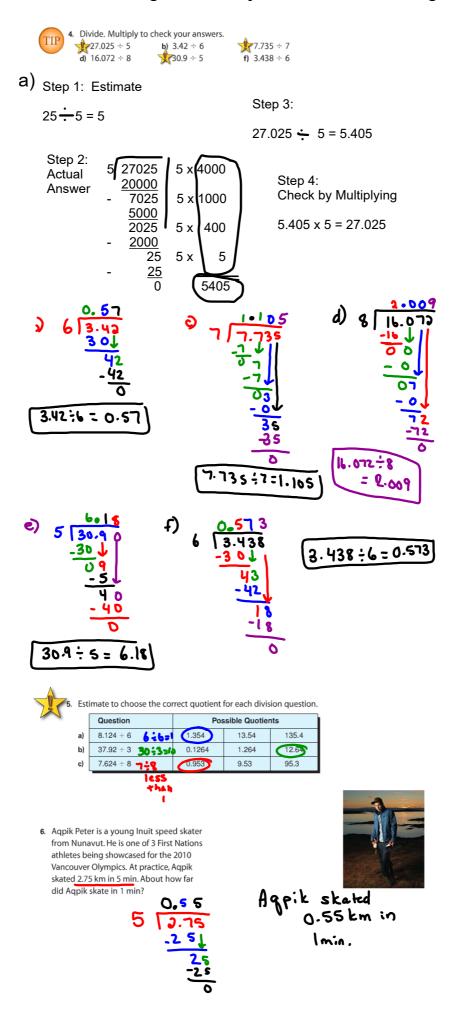
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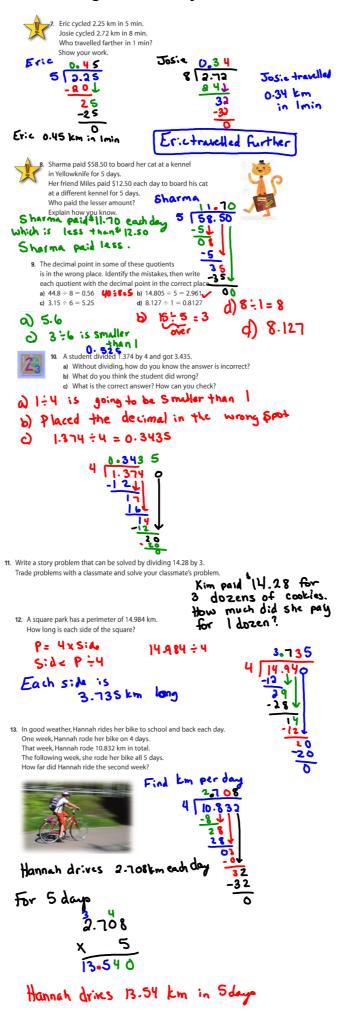
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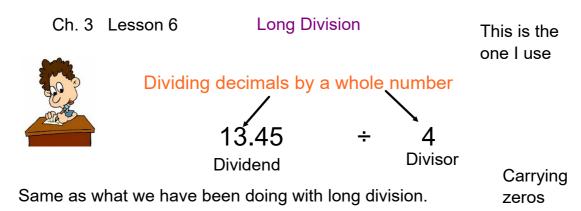


Chapter 3 Decimals Lesson 6 Dividing Decimals by whole numbers carrin@reconstotary10,021046fe.note



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• Divide the decimal number by considering it as a whole number by the given whole number.

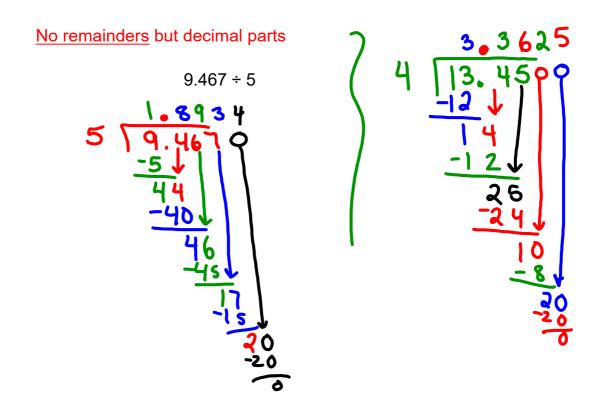
4 13.45

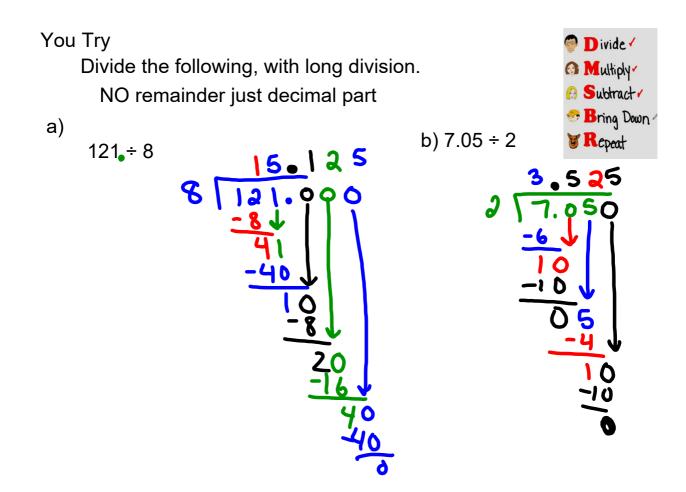
Always
estimate to see
if the quotient
is reasonable

• Mark the decimal point in the quotient such that it has the same number of decimal places as in the decimal number (dividend).

4 13.45 Then divide normally

If you have a remainder, you can always add zeros to the end of dividend, and it does not change the number. Then repeat







Divide: 10.4 ÷ 3

Divide as whole numbers. Use short division. Write zeros in the dividend.

Estimate to place the decimal point.

The closest whole-number benchmark to 10.4 is 10.

 $10 \div 3$ is a little more than 3.

So, place the decimal point between the 3 and the 4; that is: 3.4666 ...

So,
$$10.4 \div 3 = 3.4666 \dots$$

This quotient is approximate.

Since the distance was given to a tenth of a kilometre, we write the quotient to the closest tenth.

3.4666 ... is closer to 3.5 than to 3.4,

The hikers travelled about 3.5 km in 1 h.

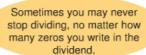
Check the answer by multiplying the quotient by the divisor.

$$3.5 \times 3 = 10.5$$

10.5 is close to the dividend, 10.4.

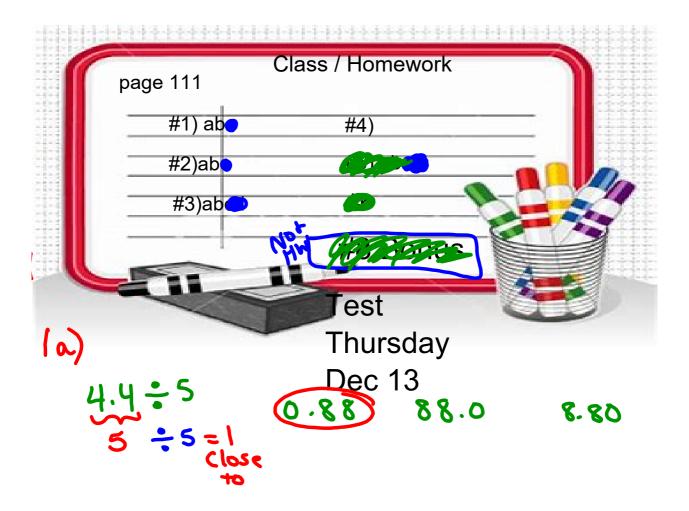
So, the answer is reasonable.

so, write the quotient as 3.5.



The dots indicate that the decimal places go on forever.





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1. Estimate to choose the correct quotient for each division question.

	Question	Possible Quotients		
a)	4.4 ÷ 5	0.88	8.8	88
b)	10.32 ÷ 6	0.172	1.72	17.2
c)	87.2 ÷ 4	0.218	2.18	21.8

2. Divide. Estimate to place the decimal point.

a)
$$8.235 \div 6$$

b)
$$12.6 \div 5$$

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$$8.235 \div 6$$
 b) $12.6 \div 5$ c) $39.77 \div 2$

3. Divide. Write each quotient to the same number of decimal places as there are in the dividend.

d)
$$1.189 \div 3$$

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 e) $24.73 \div 9$ f) $$26.53 \div 6$

4. In a snail-racing contest, Noba's snail crawled 1.677 m in 5 min. About how far did the snail travel each minute?



- 5. Check each division below. For each incorrect quotient, explain the error, then write the correct quotient.
 - a) $1.44 \div 6 = 0.24$
- **b)** $$15.97 \div 5 = 3.194
- c) $4.422 \div 3 = 14.74$
- d) $17.27 L \div 3 = 5.756 L$

6. Richard divided a 1.954-L bottle of spicy tomato juice equally among 5 glasses. How much juice is in each glass?

7. Marina packed eight 2.54-L bottles of fruit juice for a 3-day camping trip to Beauvais Lake Provincial Park in Alberta. About how many litres of fruit juice does that allow for each day?



8. Three friends rent a movie for \$6.49 and buy a package of popcorn for \$1.82. They share the cost equally. How much should each person pay? Show your work.