

Warm up Grade 6

Date: Dec. 5



18 - 6 = 3

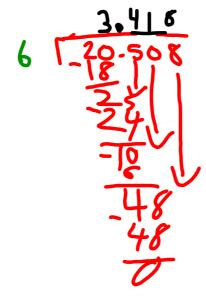
1) A student divided 20.508 by 6 and got 0.3418

a) Without dividing, how do you know this is incorrect? **b/c**

b) What do you think the student did wrong?

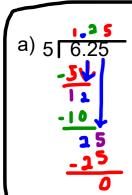
c) What is the correct answer? Show work.

18:6=3 18 is (lose to 20



Practice

- 1. Use Base Ten Blocks to divide.
 - a) 6.25 ÷ 5
- **b)** 4.24 ÷ 4
- c) 1.68 ÷ 3
- **d)** $3.9 \div 6$



2. The decimal point is missing in each quotient.

Use estimation to place each decimal point
$$8.2 \div 2 = 4$$
, $8/2 = 4$ $3.81 \div 3 = 127$ $3/3 = 1$ c) $1.992 \div 8 = 249$ $2/8 = 0.25$ $9.45 \div 5 = 189$ $10/5 = 2$ e) $11.916 \div 9 = 1324$ $62.8 \div 8 = 785$ $9/9 = 1$ $64/8 = 8$

- 3. Estimate each quotient. Which strategies did you use?
 - a) 26.34 ÷ 8
- **b)** 15.27 ÷ 3
- c) 2.304 ÷ 4

- d) $5.8 \div 8$
- e) 8.088 ÷ 6
- f) 2.316 ÷ 2

- a) 24 / 8 = 3benchmark
- b) 15/3 = 5front end or bench
- c) 2.4 / 4 = 0.8bench mark
- d) 5.6 / 8 = 0.7 d) 6 / / = 1
- f) 2.4/2 = 1.2

bench

You Try

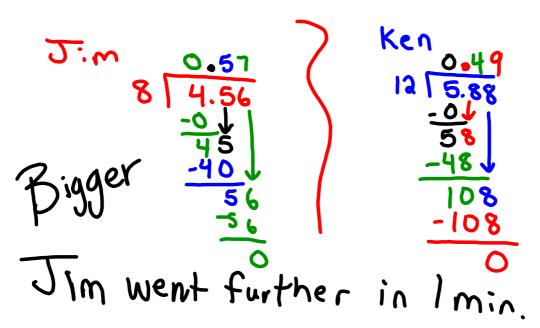
Jim can walk 4.56 km in 8 minutes.

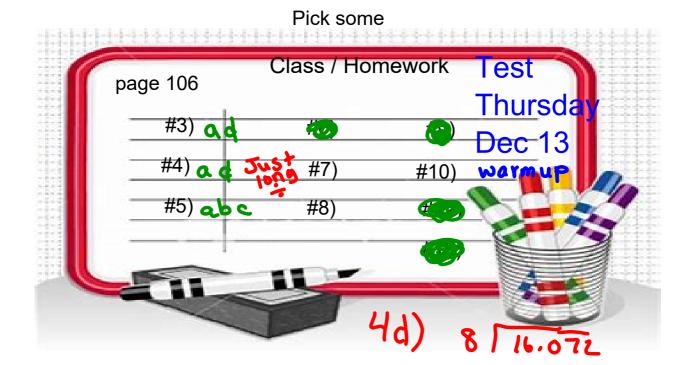
Ken can walk 5.88 km in 12 minutes. Who travelled the farthest in

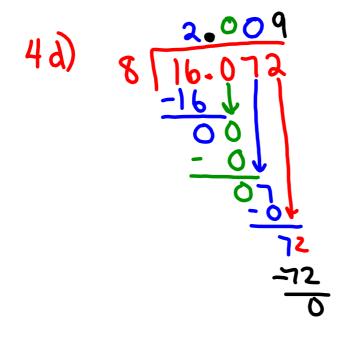
Divide 🗸

MultiplySubtractBring DownRepeat

1 min? Show work







Chapter 3 Decimals Lesson 5 Dividing Decimals by whole numbers Day 2 Dkeefebrort@5,020(18



4. Divide. Multiply to check your answers.

 $27.025 \div 5$ **b**) $3.42 \div 6$ d) 16.072 ÷ 8

30.9 ÷ 5

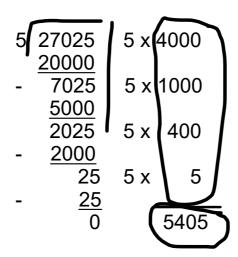
7.735 ÷ 7 f) 3.438 ÷ 6

Step 1: Estimate

Step 3:

$$27.025 \div 5 = 5.405$$

Step 2: Actual Answer



Step 4: Check by Multiplying



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

| | Question | Possible Quotients | | |
|----|-----------|--------------------|-------|-------|
| a) | 8.124 ÷ 6 | 1.354 | 13.54 | 135.4 |
| b) | 37.92 ÷ 3 | 0.1264 | 1.264 | 12.64 |
| c) | 7.624 ÷ 8 | 0.953 | 9.53 | 95.3 |

6. Aqpik Peter is a young Inuit speed skater from Nunavut. He is one of 3 First Nations athletes being showcased for the 2010 Vancouver Olympics. At practice, Aqpik skated 2.75 km in 5 min. About how far did Aqpik skate in 1 min?



Chapter 3 Decimals Lesson 5 Dividing Decimals by whole numbers Day 2 Dkeefebeet@5,020x18



7. Eric cycled 2.25 km in 5 min. Josie cycled 2.72 km in 8 min. Who travelled farther in 1 min? Show your work.



8. Sharma paid \$58.50 to board her cat at a kennel in Yellowknife for 5 days. Her friend Miles paid \$12.50 each day to board his at a different kennel for 5 days. Who paid the lesser amount? Explain how you know.



9. The decimal point in some of these quotients is in the wrong place. Identify the mistakes, then write each quotient with the decimal point in the correct place.

a)
$$44.8 \div 8 = 0.56$$

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 b) $14.805 \div 5 = 2.961$

c)
$$3.15 \div 6 = 5.25$$

d)
$$8.127 \div 1 = 0.8127$$



- 10. A student divided 1.374 by 4 and got 3.435.
 - a) Without dividing, how do you know the answer is incorrect?
 - b) What do you think the student did wrong?
 - c) What is the correct answer? How can you check?
- 11. Write a story problem that can be solved by dividing 14.28 by 3. Trade problems with a classmate and solve your classmate's problem.
- 13. In good weather, Hannah rides her bike to school and back each day. One week, Hannah rode her bike on 4 days. That week, Hannah rode 10.832 km in total. The following week, she rode her bike all 5 days. How far did Hannah ride the second week?

