

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Estimate the quotient for the following problems. The first one is done for you.

<p>a. <math>821 \div 41</math>  <math>\approx 800 \div 40</math>  <math>= 20</math></p>	<p>b. <math>617 \div 23</math>  <math>\approx \underline{600} \div \underline{20}</math>  <math>= \underline{30}</math></p>	<p>c. <math>821 \div 39</math>  <math>\approx \underline{800} \div \underline{40}</math>  <math>= \underline{20}</math></p>
<p>d. <math>482 \div 52</math>  <math>\approx \underline{500} \div \underline{50}</math>  <math>= \underline{10}</math></p>	<p>e. <math>531 \div 48</math>  <math>\approx \underline{500} \div \underline{50}</math>  <math>= \underline{10}</math></p>	<p>f. <math>141 \div 73</math>  <math>\approx \underline{100} \div \underline{100}</math>  <math>= \underline{1}</math></p>
<p>g. <math>476 \div 81</math>  <math>\approx \underline{500} \div \underline{100}</math>  <math>= \underline{5}</math></p>	<p>h. <math>645 \div 69</math>  <math>\approx \underline{700} \div \underline{70}</math>  <math>= \underline{10}</math></p>	<p>i. <math>599 \div 99</math>  <math>\approx \underline{600} \div \underline{100}</math>  <math>= \underline{6}</math></p>
<p>j. <math>301 \div 26</math>  <math>\approx \underline{300} \div \underline{30}</math>  <math>= \underline{10}</math></p>	<p>k. <math>729 \div 81</math>  <math>\approx \underline{700} \div \underline{100}</math>  <math>= \underline{7}</math></p>	<p>l. <math>636 \div 25</math>  <math>\approx \underline{600} \div \underline{60}</math>  <math>= \underline{10}</math></p>

m. $835 \div 89$ $\approx \underline{900} \div \underline{90}$ $= \underline{10}$	n. $345 \div 72$ $\approx \underline{350} \div \underline{100}$ $= \underline{3.5}$	o. $559 \div 11$ $\approx \underline{600} \div \underline{10}$ $= \underline{60}$
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2. Mrs. Johnson spent \$611 buying lunch for 78 students. If all of the lunches were the same cost, about how much did she spend on each lunch?

$$\begin{aligned}
 &611 \div 78 \\
 &\approx 600 \div 100 \\
 &= 6
 \end{aligned}$$

About \$6

3. An oil well produces 172 gallons of oil every day. A standard oil barrel holds 42 gallons of oil. About how many barrels of oil will the well produce in one day? Explain your thinking.

$$\begin{aligned}
 &172 \div 42 \\
 &\approx 200 \div 50 \\
 &= 4
 \end{aligned}$$

About 4 barrels