

Lesson 154 1 of 6

Estimating answers to division word problems

Round the divisor to one-digit accuracy and the dividend to the same place, simplify the problem and estimate the answer to the nearest whole number.

- ① Jay drove 872 miles on 43 gal of gas. Estimate how many miles he drove for each gallon of gas.

- ② Mrs. Hawthorne graded 778 tests during the last 18 weeks of school. Estimate how many tests she graded per week.

$$43 \overline{)872} \rightarrow 40 \overline{)870} \rightarrow 4 \overline{)87.0} \begin{array}{r} 21.7 \\ \end{array}$$

Estimate: 22 miles per gallon
Actual number: 20.28



Lesson 154 2 of 6

Estimating answers to division word problems

Round the divisor to one-digit accuracy and the dividend to the same place, simplify the problem and estimate the answer to the nearest whole number.

- ① Jay drove 872 miles on 43 gal of gas. Estimate how many miles he drove for each gallon of gas.

$$43 \overline{)872} \rightarrow 40 \overline{)870} \rightarrow 4 \overline{)87.0} \begin{array}{r} 21.7 \\ \end{array}$$

Estimate: 22 miles per gallon
Actual number: 20.28

- ② Mrs. Hawthorne graded 778 tests during the last 18 weeks of school. Estimate how many tests she graded per week.

$$18 \overline{)778} \rightarrow 20 \overline{)780} \rightarrow 2 \overline{)78} \begin{array}{r} 39 \\ \end{array}$$



Est: 39 tests per week
Actual: 43.22

Lesson 154 3 of 6

Estimating answers to division word problems

③ Chris served 213 pancakes to 71 people at a pancake breakfast. Estimate how many pancakes each person ate.

④ Alex watched 58 baseball games last season, which lasted 183 hours total. Estimate how many hours each game lasted.

Lesson 154 4 of 6

Estimating answers to division word problems

- ③ Chris served 213 pancakes to 71 people at a pancake breakfast. Estimate how many pancakes each person ate.

- ④ Alex watched 58 baseball games last season, which lasted 183 hours total. Estimate how many hours each game lasted.

$$71 \overline{)213} \rightarrow 70 \overline{)210} \rightarrow 7 \overline{)21}^3 \quad 58 \overline{)183} \rightarrow 60 \overline{)180} \rightarrow 6 \overline{)18}^3$$



Est: 3 pancakes per person
Actual: 3

Est: 3 hours per game
Actual: 3.16

Lesson 154 5 of 6

Estimating answers to division word problems

- ⑤ Edan made 12 trips to the store last month, driving 262 miles in all. Estimate how many miles she drove each trip.

- ⑥ Ada prepares 928 lb of food each day for all of the 16 bears at the zoo. Estimate how much food each bear eats every day.



Lesson 154 6 of 6

Estimating answers to division word problems

- ⑤ Edan made 12 trips to the store last month, driving 262 miles in all. Estimate how many miles she drove each trip.

$$12 \overline{)262} \rightarrow 10 \overline{)260} \rightarrow 1 \overline{)26}$$

Est: 26 miles per trip
Actual: 21.83

- ⑥ Ada prepares 928 lb of food each day for all of the 16 bears at the zoo. Estimate how much food each bear eats every day.

$$16 \overline{)928} \rightarrow 20 \overline{)930} \rightarrow 2 \overline{)93.0} \quad \begin{array}{r} 46.5 \\ \hline \end{array}$$



Est: 47 lb per bear
Actual: 58
