Name_____ Date_____ Period_____

LESSON 4-3 · SESSION 2 · PRACTICE · FORM B

Estimate a Percent of a Number

Learning target – I can estimate a percent of a number using friendly percents and rounded amounts. · 6.AT.4

REMEMBER

- Round to **compatible (friendly) numbers**: 312 is about 300, 39% is about 40%.
- **10%** = divide by 10. 20% = 2 × 10%, 30% = 3 × 10%, 5% = half of 10%.
- Write **about**. Did you round up (estimate high) or down (estimate low)?

WORKED EXAMPLE

Estimate 20% of 312 bottles.

Step 1 312 is about 300.
Step 2 10% of 300 = 30.
Step 3 20% = 30 + 30 = 60.
Answer about 60 bottles

WORDS **estimate** *(estimación)* · **compatible (friendly) numbers** *(números compatibles)* · **ten percent** *(diez por ciento)*

PRACTICE

show your work · label units

1. Estimate. Round to compatible (friendly) numbers first.

a. 9% of 310 ≈ ___ **b.** 19% of 248 ≈ ___ **c.** 24% of 161 ≈ ___

d. 52% of 398 ≈ ___ **e.** 29% of 61 ≈ ___ **f.** 74% of 81 ≈ ___

2. **Food Drive.** A food drive collected 238 pounds of food. The circle graph shows the percents. Round 238 to 240. Estimate the pounds of each kind.

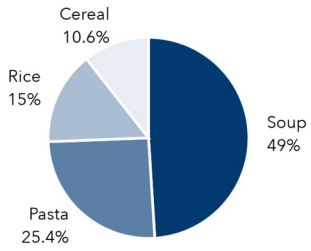
Hint *Rice: 15% = 10% + 5%. 5% is half of 10%.*

a. Soup _____ lb

b. Pasta _____ lb

c. Rice _____ lb

d. Cereal _____ lb



3. **Tip Estimate.** A lunch bill is $51.80. The family wants to leave about a 15% tip. Round the bill to $50. Then estimate.

Hint *15% = 10% + 5%. 5% is half of 10%.*

Show your work.

About_____

4. **Coat Drive Goal.** Last year a coat drive collected 410 coats. This year's goal is 130% of that. Round to 400. About how many coats is the goal?

Hint *130% = 100% + 30%.*

Show your work.

About_____

5. Helmet Coupon. A bike helmet costs $62. A coupon takes off about 19%. Estimate the dollars taken off.

Hint *Round to 20% of $60.*

Show your work.

About_____

6. Estimate Claim. Kira says 8% of 512 is about 400. Is she right? Use 10% of 500 to estimate and explain.

Show your work.

Better estimate_____

7. Garden Beds. A garden has 122 plants. About 76% are flowering. Estimate how many. Is your estimate high or low?

Show your work.

About_____

8. Coat Sale. A coat costs $59.80. It is 30% off. Round the price to $60. Then estimate.

a. Estimate 10% of the price. _____

b. Estimate the amount saved. _____

c. Estimate the sale price. Is it a little high or a little low? _____

FIND THE ERROR

explain the mistake, then fix it

9. Lee's Work. Lee estimated 25% of 396. He found 10% of 400 = 40 and wrote: "About 40." Explain his mistake. Give a good estimate.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. 10% of 840 is –

A 8.4 **B** 84 **C** 840 **D** 8,400

11. About 30% of 290 is –

A 9 **B** 30 **C** 90 **D** 900

SELF-CHECK CODE

find your answer · copy its letter into that problem's box · spell a math word

90 U	$12 M	520 O	$18 E	50 P	$1.20 X	500 Z	$7.50 C	$75 Q	$6 T

#3	#4	#5	#6	#7	#8a	#8b

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #____