Name_____ Date_____ Period_____

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

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

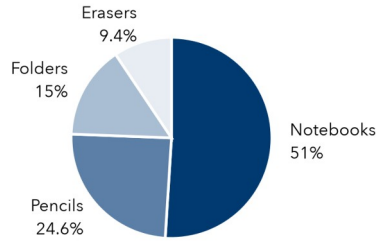
show your work · label units

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

a. 9% of 205 ≈ ___ **b.** 21% of 152 ≈ ___ **c.** 26% of 79 ≈ ___

d. 49% of 612 ≈ ___ **e.** 32% of 89 ≈ ___ **f.** 76% of 119 ≈ ___

2. **Supply Drive.** A supply drive collected 183 pounds of supplies. The circle graph shows the percents. Round 183 to 180. Estimate the pounds of each kind.



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

a. Notebooks _____ lb

b. Pencils _____ lb

c. Folders _____ lb

d. Erasers _____ lb

3. **Tip Estimate.** A dinner bill is $58.40. The family wants to leave about a 15% tip. Round the bill to $60. Then estimate.

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

Show your work.

About_____

4. **Can Drive Goal.** Last year a can drive collected 195 cans. This year's goal is 140% of that. Round to 200. About how many cans is the goal?

Hint *140% = 100% + 40%.*

Show your work.

About_____

5. Field Trip Coupon. A field trip costs $237. A coupon takes off about 19%. Estimate the dollars taken off.

Hint *Round to 20% of $240.*

Show your work.

About_____

6. Estimate Claim. Ravi says 9% of 418 is about 200. Is he right? Use 10% of 420 to estimate and explain.

Show your work.

Better estimate_____

7. Garden Beds. A garden has 158 plants. About 74% are flowering. Estimate how many. Is your estimate high or low?

Show your work.

About_____

8. Jacket Sale. A jacket costs $78.90. It is 40% off. Round the price to $80. 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. Jamal's Work. Jamal rounded 19% of 285 to 20% of 300. Then he wrote: "That is about 6 items." Explain his mistake. Give a good estimate.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. 10% of 250 is –

A 2.5 **B** 25 **C** 250 **D** 2,500

11. About 25% of 812 is –

A 20 **B** 80 **C** 200 **D** 400

SELF-CHECK CODE

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

$32 D	42 N	120 D	$48 U	$9 R	$90 Q	80 X	280 O	420 Z	$8 E

#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 #____