Name_____ Date_____ Period_____

LESSON 4-1 · SESSION 2 · PRACTICE · FORM A

Percents Greater Than 100%

Learning target – I can use percents greater than 100% to describe an amount larger than the whole. · 6.AT.4

REMEMBER

- **100%** = one whole. Over 100% = **more than the whole**. 3 times as much = **300%**.
- Find 10% of the whole. If the whole is 20, 10% is 2. 30 is 15 groups of 2, so 30 is 15 × 10% = 150%.

WORKED EXAMPLE

A puppy went from 5 lb (the whole) to 8 lb.

Step 1 Whole: 5 lb = 100%.

Step 2 1 lb = 100% ÷ 5 = 20%.

Step 3 8 lb = 8 × 20% = 160%.

Answer 8 lb is 160% of last month's weight

WORDS **the whole** *(el entero)* · **times as much** *(veces tanto como)* · **greater than 100%** *(mayor que 100%)*

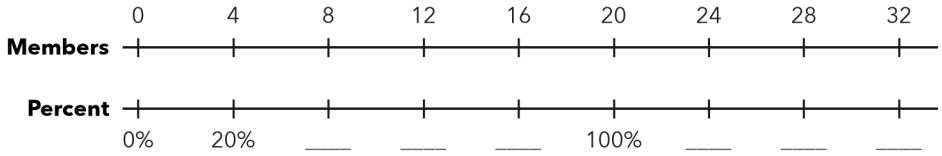
PRACTICE

show your work · label units

1. Write each "times as much" as a percent of the whole.

a. 4 times = ___ % **b.** 1.5 times = ___ % **c.** 2.5 times = ___ % **d.** 1.2 times = ___ %

2. **Book Club.** A book club had 20 members last year (the whole) and 32 this year. Fill in the line. This year is what % of last year?



This year_____ %

3. **Practice Minutes.** Cole practiced piano 40 minutes on Monday and 50 minutes on Tuesday.

a. Tuesday is _____ % of Monday.

b. Monday is _____ % of Tuesday.

4. **Jump Rope.** Deshawn jumped 50 times on Monday (the whole) and 90 times on Friday. Friday is what % of Monday?

Hint *10% of 50 is 5. Count the 5s up to 90.*

Show your work.

Answer_____ %

5. **Video Views.** A first video got 500 views. A second video got 1,100 views. The second is what percent of the first?

Hint *How many 500s make 1,100?*

Show your work.

Answer_____ %

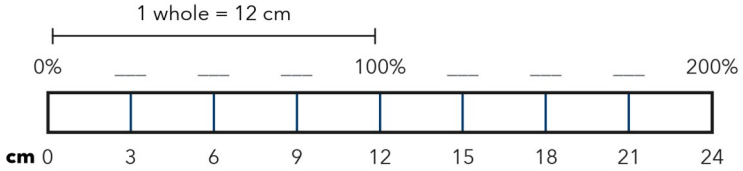
6. **Recipe Doubling.** Rosa doubles a muffin recipe. She says the new batch is 2% of the first batch. Correct her claim.

Show your work.

Answer_____ %

7. Bean Plant. A bean plant grew from 12 cm (the whole) to 18 cm. Shade the bar to 18 cm and fill in the blanks. 18 cm is what percent of 12 cm?

Hint *Each part is 3 cm. Four parts make 100%.*



Answer_____ %

8. Plant Growth. A seedling was 12 cm tall in May and 30 cm tall in July.

a. July's height is what percent of May's? _____ %

b. May's height is what percent of July's? _____ %

c. Why is one answer more than 100% and one less than 100%?

FIND THE ERROR

explain the mistake, then fix it

9. Marcus's Work. A large pumpkin weighs 16 kg; a small one weighs 10 kg. Marcus wrote, "The large pumpkin is 16% of the small one." Explain his mistake and fix it.

TEST PRACTICE

choose the best answer

10. 3 times as much is the same as –

A 3% **B** 300% **C** 30% **D** 103%

11. 24 is what percent of 20?

A 4% **B** 24% **C** 104% **D** 120%

SELF-CHECK CODE

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

220% T	125% R	160% G	180% A	250% E	90% Z	80% E	16% Q	40% R	10% X

#2	#3a	#3b	#4	#5	#8a	#8b

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