Name_____ Date_____ Period_____

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

Compare Percents

Learning target – I can compare two records fairly by converting each one to a percent. · 6.AT.4

REMEMBER

- A **record** (how many out of how many) is a part of **its own whole**.
- Write each record as a percent: 21/28 = 75%; 5/8 = 62.5%.
- **Percentage points** = one percent minus the other: 90% − 50% = 40. Equal percents tie.

WORKED EXAMPLE

Mia made 21 of 28 shots. Leo made 16 of 20. Who has the better rate?

Step 1 Mia: 21 ÷ 28 = 0.75 = 75%

Step 2 Leo: 16 ÷ 20 = 0.80 = 80%

Answer Leo (80% > 75%), even though Mia made more shots

WORDS **part-to-whole ratio** *(razón de parte al entero)* · **common whole** *(entero común)* · **compare** *(comparar)*

PRACTICE

show your work · label units

1. Write each record as a percent.

a. 18 out of 20 = ___ %

b. 12 out of 15 = ___ %

c. 9 out of 12 = ___ %

d. 21 out of 25 = ___ %

e. 16 out of 20 = ___ %

f. 30 out of 50 = ___ %

2. **Free Throw Contest.** Complete the table. Who is the best shooter?

Hint *Simplify each fraction, then scale it to hundredths.*

Player	Made	Shots	Percent
Dara	18	24	
Ivan	26	40	
Nora	28	35	

3. **Recycling.** Class A recycled 34 of its 40 bottles. Class B recycled 51 of its 60 bottles.

a. Each class as a percent _____

b. Which is greater, or is it a tie?

_____

4. **Club Days.** On Monday, 45 of 60 club members came. On Friday, 39 of 65 came.

a. Percent present each day _____

b. On which day did a greater share of members come? _____

5. Shooting Stats. Rico made 9 of 12 shots. Tia made 15 of 24. Who had the better rate?

Hint *15/24 = 5/8, and 5 ÷ 8 = 0.625.*

Show your work.

Better rate_____

6. Survey Claim. 33 of 55 people voted yes. Ben says that is 33%. Is that right? Find the percent.

Hint *Compare 33 to the total votes, not to 100.*

Show your work.

Percent_____

7. Reading Pace. Ella has read 63 of 70 pages. Omar has read 46 of 92. Find each percent. Then subtract: how many percentage points apart are they?

Hint *46 is half of 92.*

Show your work.

Points apart_____

8. Three Classes. Class 1 recycled 36 of 45 items, Class 2 40 of 50, and Class 3 30 of 40.

a. Write each record as a percent. _____

b. Rank the classes from best to worst. _____

c. Class 2 recycled the most items. Why is it not alone in first place?

FIND THE ERROR

explain the mistake, then fix it

9. Theo's Work. Theo compared 12 out of 15 with 22 out of 40. He wrote: "22 is bigger than 12, so 22 out of 40 is the better score." Explain his mistake. Then compare correctly.

_____

_____

TEST PRACTICE

choose the best answer

10. 18 out of 20 as a percent is –

A 18% **B** 20% **C** 90% **D** 92%

11. Which is better: 12 out of 15 or 16 out of 25?

A 12 out of 15 **B** 16 out of 25 **C** They are equal. **D** You cannot tell.

SELF-CHECK CODE

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

40 E	Ivan X	60% R	Rico A	Monday P	tie M	Nora O	17 Z	75% C	33% Q

#1c	#2	#3b	#4b	#5	#6	#7

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