Name_____ Date_____ Period_____

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

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. 17 out of 20 = ___ %

b. 9 out of 15 = ___ %

c. 3 out of 12 = ___ %

d. 19 out of 25 = ___ %

e. 11 out of 20 = ___ %

f. 35 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
Amir	33	44	
Bea	27	45	
Cole	34	40	

3. **Recycling.** Class C recycled 45 of its 50 cans. Class D recycled 36 of its 40 cans.

a. Each class as a percent _____

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

_____

4. **Club Days.** On Tuesday, 36 of 48 club members came. On Thursday, 44 of 55 came.

a. Percent present each day _____

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

5. Shooting Stats. Jada made 14 of 16 shots. Ken made 18 of 20. Who had the better rate?

Hint *14/16 = 7/8, and 7 ÷ 8 = 0.875.*

Show your work.

Better rate_____

6. Survey Claim. 28 of 40 people voted yes. Mae says that is 28%. Is that right? Find the percent.

Hint *Compare 28 to the total votes, not to 100.*

Show your work.

Percent_____

7. Reading Pace. Lia has read 72 of 80 pages. Sam has read 33 of 60. Find each percent. Then subtract: how many percentage points apart are they?

Hint *33/60 = 11/20.*

Show your work.

Points apart_____

8. Three Classes. Class 1 recycled 24 of 30 items, Class 2 42 of 60, and Class 3 35 of 50.

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 in first place?

FIND THE ERROR

explain the mistake, then fix it

9. Rae's Work. Rae says 30 out of 60 is better than 20 out of 25 because 30 is more than 20. Explain her mistake. Then compare correctly.

_____

_____

TEST PRACTICE

choose the best answer

10. 24 out of 30 as a percent is –

A 24% **B** 30% **C** 80% **D** 54%

11. Which is better: 9 out of 10 or 17 out of 20?

A 9 out of 10 **B** 17 out of 20 **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

39 Z	35 S	Tuesday X	Ken R	Cole E	70% D	tie C	25% R	28% Q	Thursday O

#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 #____