

Name _____

Key

Date _____

Module Assessment Review**UR (UNDERSTAND RATES)**

1. Use the tables below to answer a-c.

Celebration Cinema

Number in Group	4	6	8
Tickets(\$)	20	30	40

NCG

Number in Group	5	10	15	20
Tickets (\$)	27.50	55	\$82.50	\$110

- a. Find the missing values in the two tables above. (UR)

- b. Write how much each cinema charges as a rate. (UR)

$$\frac{\$20}{4 \text{ tickets}} = \frac{\$5}{1 \text{ ticket}}$$

$$\frac{\$55}{10 \text{ tickets}} = \frac{\$5.50}{1 \text{ ticket}}$$

- c. Who charges
- more
- per ticket?
- Justify
- your answer. (UR)

NCG charges more per ticket. They charge 50¢ more per ticket.

SR (SOLVE RATE PROBLEMS)

2. Your family takes a trip to Lake Michigan. Your mom drives 120 minutes at a constant speed of 50 miles per hour. She reaches a traffic jam and slows down to drive for another 30 minutes at constant speed of 20 miles per hour.

- a. How far did you and your family travel altogether?

$$\frac{50 \text{ miles}}{1 \text{ hr}} \cdot 2 \text{ hr} = 100 \text{ miles} \quad \text{add} = 110 \text{ miles}$$

$$\frac{20 \text{ miles}}{1 \text{ hr}} \cdot 30 \text{ min} = \frac{1}{2} \text{ hr} = 10 \text{ miles}$$

3. Meijer is selling two brands of socks:
 Brand A - 3 pair of socks for \$7.35
 Brand B - 5 pair of socks for \$12.00

a. What are the rates that Brand A and Brand B are selling for?

Brand A: $\frac{\$7.35}{3 \text{ pair}} = \frac{\$2.45}{1 \text{ pair}}$

Brand B: $\frac{\$12.00}{5 \text{ pair}} = \frac{\$2.40}{1 \text{ pair}}$

b. Which brand is the better buy?

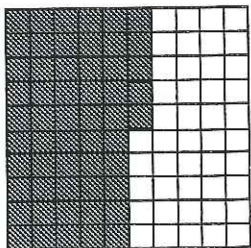
Brand B is the better buy

UP (UNDERSTAND PERCENT)

4. Complete the table below by filling in missing values.

Fraction	Decimal	Percent	Ratio
$\frac{3}{5}$.6	60%	3:5
$\frac{7}{100}$	0.07	7%	7:100
$\frac{45}{100} = \frac{9}{20}$.45	45%	45:100
$\frac{3}{4}$.75	75%	3:4

5. What percent does the grey portion of the following model represent?



55%

SP (SOLVE PERCENT PROBLEMS)

6. Katie likes to run. She ran 6 miles before school this morning. This is only 60% of the total miles she will run for the day. How many miles does she run in one day?

$$\begin{array}{c|c|c} P & 60 & 6 \\ \hline W & 100 & 10 \end{array}$$

Handwritten annotations: $\div 10$ above 60, $\div 10$ below 6, and a circled 10.

10 miles in one day

7. Mason has read 75% of his book for Mrs. Thelen's class. The book is 320 pages long. How many pages has he read?

$$\begin{array}{c|c|c|c} P & 75 & 3 & 240 \\ \hline W & 100 & 4 & 320 \end{array}$$

Handwritten annotations: $\div 25$ above 75, $\div 25$ below 3, $\div 25$ below 4, $\div 25$ below 320, and $\times 80$ above 240.

240 pages

8. Complete the following table. (SP)

ITEM	ORIGINAL PRICE	SALE PRICE	AMOUNT OF DISCOUNT	PERCENT SAVED	PERCENT PAID
Soccer ball	\$20	\$17	\$3	15%	85%
iPhone	\$400	\$360	\$40	10%	90%
Nike Shoes	\$120	\$90	\$30	25%	75%

$$\begin{array}{c|c|c} P & 15 & 3 \\ \hline W & 100 & 20 \end{array}$$

Handwritten annotations: $\div 5$ above 15, $\div 5$ below 3, and a circled 20.

$$\begin{array}{c|c|c|c} P & 30 & 1 & 25 \\ \hline W & 120 & 4 & 100 \end{array}$$

Handwritten annotations: $\div 30$ above 30, $\div 30$ below 1, $\div 30$ below 4, $\div 30$ below 120, and $\times 25$ above 25.

$$\begin{array}{c|c|c} P & 10 & 40 \\ \hline W & 100 & 4000 \end{array}$$

Handwritten annotations: $\times 4$ above 10, $\times 4$ below 40, and a circled 4000.