The following rates are about the amount of snowfall. Determine if they are unit rates. Circle YES or NO.

1. $\dfrac{7 \text{ inches}}{8 \text{ days}}$

Unit Rate?   YES   or   NO

per 8 days

2. $\dfrac{6 \text{ inches}}{1 \text{ day}}$

Unit Rate?   YES   or   NO

per day

3. 5 inches per day

Unit Rate?   YES   or   NO

per day

4. 5 inches per 2 days

Unit Rate?   YES   or   NO

per 2 days

5. $\frac{3}{2}$ inches per day

Unit Rate?   YES   or   NO

per day

6. 0.35 inches per day

Unit Rate?   YES   or   NO

per day

Write the following as rates both ways. Determine which rate is better to use. Express fractions in simplest form!

7. Teri pays 4 dollars for 2 gallons of milk.

$$\frac{2 \text{ gallons}}{4 \text{ dollars}} = \frac{1}{2}$$

$$\frac{4 \text{ dollars}}{2 \text{ gallons}} = \frac{2}{1}$$

___$\frac{1}{2}$___ gallons per dollar   ___2___ dollars per gallon

Which rate is better to use? Circle it above!

8. Patrick eats 12 crabby patties every 3 hours.

$$\frac{12 \text{ patties}}{3 \text{ hours}} = \frac{4}{1}$$

$$\frac{3 \text{ hours}}{12 \text{ patties}} = \frac{1}{4}$$

___4___ patties per hour   ___$\frac{1}{4}$___ hours per patty

Which rate is better to use? Circle it above!

9. You babysit 5 hours and make 30 dollars.

$$\frac{30 \text{ dollars}}{5 \text{ hours}} = \frac{6}{1}$$

$$\frac{5 \text{ hours}}{30 \text{ dollars}} = \frac{1}{6}$$

___6___ dollars per hour   ___$\frac{1}{6}$___ hours per dollar

Which rate is better to use? Circle it above!

10. The speed limit is 60 mph on the highway.

$$\frac{60 \text{ miles}}{1 \text{ hour}} = \frac{60}{1}$$

$$\frac{1 \text{ hour}}{60 \text{ miles}} = \frac{1}{60}$$

___60___ miles per hour   ___$\frac{1}{60}$___ hours per mile

Which rate is better to use? Circle it above!

11. Sully visits the gym 3 times every 2 weeks.

$$\frac{2\ weeks}{3\ visits} = \frac{2}{3} \qquad\qquad \frac{3\ visits}{2\ weeks} = \frac{3}{2}$$

$\frac{2}{3}$ ___ weeks per visit   (⬭ $\frac{3}{2}$ visits per week)

Which rate is better to use? Circle it above!

12. BP sells 2 gallons of gas for 6 dollars.

$$\frac{2\ gallons}{6\ dollars} = \frac{1}{3} \qquad\qquad \frac{6\ dollars}{2\ gallons} = \frac{3}{1}$$

$\frac{1}{3}$ ___ gallons per dollar   (⬭ 3 dollars per gallon)

Which rate is better to use? Circle it above!

Write the following as a unit rate. Label your answer! Round to nearest hundredth.

13. Thanos collects 2 infinity stones in 5 weeks.

$$\frac{2\ stones}{5\ weeks} = \boxed{0.4\ stones\ per\ week}$$

OR

$$\frac{5\ weeks}{2\ stones} = \boxed{2.5\ weeks\ per\ stone}$$

14. Apple store gets 300 customers in 5 days.

$$\frac{300\ customers}{5\ days} = \boxed{60\ customers\ per\ day}$$

OR

$$\frac{5\ days}{300\ customers} = \boxed{0.02\ days\ per\ customer}$$

15. Peanuts costs $8.50 for 2 pounds.

$$\frac{8.50\ dollars}{2\ pounds} = \boxed{4.25\ dollars\ per\ pound}$$

OR

$$\frac{2\ pounds}{8.50\ dollars} = \boxed{0.24\ pounds\ per\ dollar}$$

Determine which deal is better. Justify your solution using unit rates. Round to nearest hundredth.

16.

STORE A
5 dollars for 4 markers

$$\frac{5\ dollars}{4\ markers} = 1.25\ dollars\ per\ marker$$

STORE B
8 dollars for 6 markers

$$\frac{8}{6} = 1.50$$

STORE __A__ is better because they charge $1.25 per marker instead of $1.50 per marker.

17.

STORE A
6 ounces for $2.40

$$\frac{2.40\ dollars}{6\ ounces} = 0.40\ dollars\ per\ ounce$$

STORE B
3 ounces for $1.80

$$\frac{1.80}{3} = 0.60$$

STORE __A__ is better because they charge $0.40 per ounce instead of $0.60 per ounce.

18.

STORE A	
32 ounce Gatorade for $2.50	

$$\frac{2.50 \text{ dollars}}{32 \text{ ounces}} = 0.08 \text{ dollars per ounce}$$

STORE B	
16 ounce Gatorade for $1.50	

$$\frac{1.50}{16} = 0.09 \text{ dollars per ounce}$$

STORE **A** is better because they charge $0.08 per ounce instead of $0.09 per ounce.

19.

STORE A	
3 months of service for 40 dollars	

$$\frac{40 \text{ dollars}}{3 \text{ month}} = 13.33 \text{ dollars per month}$$

STORE B	
1 year of service for $150	

$$\frac{12 \text{ months}}{} \qquad \frac{150}{12} = 12.5$$

STORE **B** is better because they charge $12.50 per month instead of $13.33 per month.