Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_

1. -5 + 3 =

2. 2x + 11x =

3. 2x – 11x =

4. -5 – 3 =

5. – 4 x 15

6. -5 • ($ \frac{4}{5} $)

7. $\frac{4}{5} ÷$ $\frac{3}{2}$

8. $\frac{-4}{5} ÷$ $\frac{-5}{2}$

9. Evaluate the expression for x = 10 and y =3.

 5( x – 2y)

10. Which expression is equivalent to 2(3v + 7)?

A 6v – 7
B 3v + 14
C 6v + 14
D 6v + 7

11. Convert $\frac{4}{ 10}$ into a decimal.

12. Convert0.09 into a fraction.

13. Convert0.375 into a percent.

14. Convert125% into a fraction.

15. Convert$-\frac{13}{8}$ into a percent.

16. Convert97% into a decimal.

17. Jan is going to pay $140 for 28 gymnastics lessons. Anil will pay $30 for 5 lessons.

1. What is the rate per lesson for each? (Should have two different answers)
2. Who is paying more per lesson? How much more?

18. The table shows the prices of 3 boxes of laundry detergent of different sizes. Which size box costs the least per ounce? Explain your answer.

|  |  |
| --- | --- |
| Size | Price |
| 150 oz | $18.97 |
| 100 oz | $11.97 |
| 56 oz | $8.97 |

19. Find the unit rate and round to the nearest hundredth if possible.

18 people in 3 vans.

20. Which has the best unit price? Circle and show your work.
A 32-oz bottle of grape juice for $3.75 or a 20-oz bottle for $2.34

For numbers 21-23, determine whether each pair of ratios forms a proportion.

21. $\frac{8}{10}$ = $\frac{4}{5}$

22. $\frac{9}{4}$ = $\frac{11}{6}$

23. $\frac{6}{14}$ = $\frac{9}{21}$

For numbers 24-25, solve each proportion.

24. $\frac{y}{7}$ = $\frac{16}{28}$

25. $\frac{5}{15}$ = $\frac{15}{w}$