

Pretest

Evaluate each expression if $a = 2$ and $b = 8$.

1. $3a + 1$

1. _____

2. $\frac{24}{b}$

2. _____

Describe the relationship between the terms in the arithmetic sequence. Then write the next three terms in each sequence.

3. 4, 9, 14, 19, ...

3. _____

4. 0, 14, 28, 42, ...

4. _____

5. **FISH** The table shows the cost of goldfish. How much will 6 goldfish cost?

Number of Fish	Cost (\$)
1	2.80
2	5.60
3	8.40
4	11.20

5. _____

Name the property shown by each statement.

6. $4m \cdot 0 \cdot 3m = 0$

6. _____

7. $5 + (a + 17) = (5 + a) + 17$

7. _____

Use the Distributive Property to rewrite each expression.

8. $4(x + 7)$

8. _____

9. $-5(y+10)$

9. _____

10. Write $3x - 1 + 5x + 7$ in simplest form.

10. _____

11. Find $(x + 1) + (x + 1)$.

11. _____

12. Find $(4x - 7) - (2x - 2)$

12. _____

Find the GCF of each pair of monomials.

13. $3x, 12x$

13. _____

14. $16a, 20ab$

14. _____

15. $25cd, 10d$

15. _____

Are You Ready?

Apply

- 1. FOOD** Jasmine bought the items shown in the table. What was the total cost?

Item	Cost (\$)
burrito	2.65
lemonade	1.70

- 2. MONEY** Ethan had \$15. He spent \$13.74 on art supplies. How much money did Ethan have left?

- 3. ENTERTAINMENT** Three friends spent \$26.25 on movie tickets. How much does each ticket cost?

- 4. PUPPY** The weight of a puppy is shown in the table. How much more did the puppy weigh in Week 8 than in Week 4?

Week	Weight (lb)
4	5.8
8	13.4

- 5. JOBS** Ariana earns \$12.35 per hour. What does she earn in one week if she works 18 hours?

- 6. NUTRITION** A can of peas contains 3.5 servings and one serving is 0.5 cup. How many cups of peas are in the can?