

Name: \_\_\_\_\_



PRACTICE



TUTORIAL

## 3-4 Additional Practice

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In 1–10, write an algebraic expression for each situation.

1. 6 more than a number  $c$

2. 2.5 less than a number  $d$

3. 50 divided by a number  $f$

4. twice a number  $n$

5. 12 fewer than  $h$  hats

6. 4 times the sum of  $x$  and  $\frac{1}{2}$

7. 6 less than the quotient of  $z$  divided by 3

8. twice a number  $k$  plus the quantity  $s$  minus 2

9. 8 more than  $s$  stripes

10. 5 times the quantity  $m$  divided by 2

In 11–14, tell how many terms each expression has.

11.  $4c + 7\frac{1}{2}$

12.  $80.6 - 3p - q$

13.  $(7 \cdot 2) \div s$

14.  $100 + (8 \cdot 6) - 50 + 2$

In 15 and 16, use the expression  $1 + \frac{z}{3} + 2w$ .

15. Which part of the expression is a quotient?  
Describe its parts.

16. Which part of the expression is a product  
of two factors? Describe its parts.



In 17–20, use the sign at the right.

17. A pet store is having a pet fish sale. Lenny bought  $p$  platies and  $l$  loaches. Write an algebraic expression to represent the total cost of the fish.

18. **Model with Math** Mr. Bolden bought  $g$  guppies and paid with a \$20 bill. Write an algebraic expression to represent how much change Mr. Bolden got back.

19. **Make Sense and Persevere** Ms. Wilson bought two bags of pet fish for her twin nieces. Each bag has  $g$  guppies and one tetra. Ms. Wilson also bought one box of fish food that cost  $d$  dollars. Write an algebraic expression to represent how much she paid in all.

21. **Higher Order Thinking** Describe a situation that can be represented by the algebraic expression  $6b + w$ .

Guppy		\$3
Loach		\$4
Platy		\$2
Tetra		\$5

20. In 3 days, the pet store sold 27 guppies. In the same time, the store sold twice as many platies as guppies. Evaluate the expression below to find the dollar amount of sales of guppies and platies.

$$27 \cdot 3 + (2 \cdot 27) \cdot 2$$

22. **Critique Reasoning** Mary says that the expression  $\frac{a}{2}$  has no terms because there are no plus or minus signs. Explain whether her reasoning is correct.

## Assessment Practice

23. Which algebraic expression could represent the situation below?

Six fewer pencils than the total number of pencils in  $p$  packs, each of which has five pencils

- Ⓐ  $5p - 6$
- Ⓑ  $p - 6$
- Ⓒ  $5 \cdot (p - 6)$
- Ⓓ  $6 - 5p$

24. Which phrase could be best represented by the algebraic expression  $3n - 3$ ?

- Ⓐ three fewer three times a number  $n$
- Ⓑ the difference between a number  $n$  and three
- Ⓒ three fewer than three times a number  $n$
- Ⓓ the product of three and a number  $n$

