

Name _____

Problem Solving Skill**Use a Formula**

Use a formula to solve.

- Maria's classroom is 22 feet long and 25 feet wide. How much paper is needed to make a border around the entire classroom?

- The perimeter of a pentagon is 94 yards. The sides measure 10 yards, 15 yards, 22 yards, 30 yards, and n yards. What is the measurement of the fifth side?

- Find the perimeter of a triangle. The sides measure 8 feet, 6 feet, and 6 feet.

- The school's rectangular garden is 12 feet long and 14 feet wide. How much fence is needed to enclose the garden?

Margie walks a total of 15 miles per week. She walks a total of 6 days per week.

- Which shows how to find the number of miles she walks per day?

A $15 \times 6 = n$	C $15 + n = 6$	F 9 miles	H 2.3 miles
B $15 \div 6 = n$	D $15 - 6 = n$	G 2.5 miles	J 90 miles
- What does n equal in problem 5?

Mixed Review

- Write an expression for this sentence: Mike had 15 potato chips and gave some away. _____
- Name the addition property shown: $27 + 0 = 27$. _____
- Round the number 3.789 to the nearest tenth. _____
- Stacey gave 4 pencils to each of 6 friends. How many pencils did she give away to her friends?

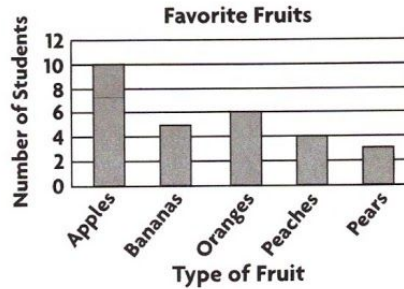
- Melba had 4 choices for snacks and 3 choices for drinks. How many different combinations of snacks and drinks could she have?

Practice PW25

Name _____

Analyze Graphs

For 1–3, use the bar graph.



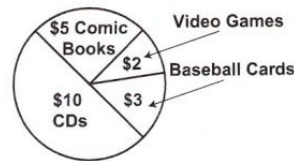
1. Mark's class recorded their favorite fruits in a bar graph. Which type of fruit is most popular? How many students chose that fruit?

2. How many more students chose apples than peaches?

3. How many students recorded their favorite fruits?

For 4–6, use the circle graph.

Steve's Monthly Entertainment Expenses



4. Steve made a circle graph to display his monthly expenses. What does Steve spend the least amount of money on each month? What does he spend the most on?

5. On what two items does Steve spend about the same amount each month?

6. How much does Steve spend in a month on comic books and baseball cards?

Mixed Review

Solve.

7. $14 + n = 56$

8. $27 - n = 1$

Write in standard form.

9. seven and seven hundred twelve thousandths

10. forty-one and three hundred eighty-seven ten-thousandths

Choose a Method

Find the product.

1. $408 \times 562 =$

2. $329 \times 1,123 =$

3. $2,147 \times 415 =$

4. $336 \times 483 =$

5. $212 \times 3,678 =$

6. $4,552 \times 53 =$

7.
$$\begin{array}{r} 1,216 \\ \times 15 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 1,714 \\ \times 49 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 2,431 \\ \times 76 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 3,239 \\ \times 64 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 4,256 \\ \times 39 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 6,274 \\ \times 95 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 1,495 \\ \times 627 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 2,501 \\ \times 251 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 6,328 \\ \times 346 \\ \hline \end{array}$$

Mixed ReviewFind the value of n .

16. $(36 \div n) \times 20 = 120$

17. $22 + (n - 4) = 79$

18. $38 + n + 68.5 = 149.80$

19. $\$12.42 \div (17 - n) = \4.14

20. Sophia ran the 100-meter dash in 11.36 seconds. What is the value of the 3 in her time?

21. Find the difference. Estimate to check.

$$\begin{array}{r} 78,932 \\ - 65,345 \\ \hline \end{array}$$

Divide 3-Digit Dividends

Name the position of the first digit of the quotient.

1. $4\overline{)832}$

2. $2\overline{)417}$

3. $7\overline{)217}$

4. $6\overline{)213}$

Divide.

5. $9\overline{)326}$

6. $3\overline{)235}$

7. $6\overline{)367}$

8. $4\overline{)935}$

9. $6\overline{)115}$

10. $9\overline{)504}$

11. $7\overline{)219}$

12. $5\overline{)621}$

Find the value of n .

13. $517 \div 2 = n$

14. $n \div 3 = 203$

15. $785 \div n = 112 \text{ r}1$

16. $431 \div 6 = n$

17. On Friday and Saturday, 618 people attended a car show. If the same number of people went each day, how many people attended the car show on Saturday?
18. Sue drove 364 miles in 7 hours. How many miles did she drive in 1 hour?

Mixed Review

19.
$$\begin{array}{r} 5,862 \\ + 6,374 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 93,042 \\ - 54,878 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 29,038 \\ \times \quad 72 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 153,911 \\ - 68,099 \\ \hline \end{array}$$

23.
$$\begin{array}{r} 49,499 \\ \times \quad 5 \\ \hline \end{array}$$

24.
$$\begin{array}{r} 61,711 \\ - 30,490 \\ \hline \end{array}$$

25.
$$\begin{array}{r} 9,715 \\ + 2,243 \\ \hline \end{array}$$

26.
$$\begin{array}{r} 22,675 \\ \times \quad 30 \\ \hline \end{array}$$

Name _____

Divide by 2-Digit Divisors

Name the position of the first digit of the quotient.

- | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| 1. $17 \overline{)1,527}$ | 2. $23 \overline{)1,941}$ | 3. $34 \overline{)7,109}$ | 4. $45 \overline{)5,683}$ |
| _____ | _____ | _____ | _____ |
| 5. $89 \overline{)9,266}$ | 6. $31 \overline{)6,683}$ | 7. $24 \overline{)1,742}$ | 8. $87 \overline{)9,556}$ |
| _____ | _____ | _____ | _____ |

Divide. Check by multiplying.

- | | | | |
|---------------------|---------------------|----------------------|----------------------|
| 9. $433 \div 35$ | 10. $698 \div 22$ | 11. $582 \div 41$ | 12. $3,121 \div 81$ |
| _____ | _____ | _____ | _____ |
| 13. $7,506 \div 64$ | 14. $8,921 \div 59$ | 15. $21,472 \div 75$ | 16. $14,117 \div 17$ |
| _____ | _____ | _____ | _____ |

Divide.

- | | | | |
|----------------------------|----------------------------|----------------------------|----------------------------|
| 17. $72 \overline{)8,136}$ | 18. $39 \overline{)4,579}$ | 19. $27 \overline{)2,835}$ | 20. $49 \overline{)7,116}$ |
| 21. $13 \overline{)3,926}$ | 22. $81 \overline{)9,446}$ | 23. $35 \overline{)7,105}$ | 24. $6 \overline{)3,109}$ |

Match each check with a division problem.

- | | | |
|-------------------------------------|-------|---------------------------------------|
| 25. $(43 \times 21) + 10 = 913$ | _____ | a. $10,738 \div 76 = 141 \text{ r}22$ |
| 26. $(76 \times 141) + 22 = 10,738$ | _____ | b. $6,348 \div 51 = 124 \text{ r}24$ |
| 27. $(28 \times 152) + 4 = 4,260$ | _____ | c. $913 \div 43 = 21 \text{ r}10$ |
| 28. $(51 \times 124) + 24 = 6,348$ | _____ | d. $4,260 \div 28 = 152 \text{ r}4$ |

Mixed Review

- | | | | | |
|--|--|---|---|--|
| 29. $\begin{array}{r} 35,482 \\ +28,453 \\ \hline \end{array}$ | 30. $\begin{array}{r} 6.75 \\ \times 0.75 \\ \hline \end{array}$ | 31. $\begin{array}{r} 92.99 \\ + 36.87 \\ \hline \end{array}$ | 32. $\begin{array}{r} 123 \\ \times 98 \\ \hline \end{array}$ | 33. $\begin{array}{r} 42,000 \\ + 1,212 \\ \hline \end{array}$ |
|--|--|---|---|--|

PW62 Practice

Divide to Change a Fraction to a Decimal

Write as a decimal.

1. $\frac{2}{5}$ _____

2. $\frac{7}{10}$ _____

3. $\frac{5}{10}$ _____

4. $\frac{3}{6}$ _____

5. $\frac{2}{8}$ _____

6. $\frac{3}{4}$ _____

7. $\frac{6}{8}$ _____

8. $\frac{3}{20}$ _____

9. $\frac{5}{8}$ _____

10. $\frac{4}{16}$ _____

11. $\frac{12}{20}$ _____

12. $\frac{23}{25}$ _____

13. $\frac{3}{8}$ _____

14. $\frac{21}{40}$ _____

15. $\frac{7}{16}$ _____

16. $\frac{12}{40}$ _____

17. $\frac{51}{80}$ _____

18. $\frac{19}{80}$ _____

19. $\frac{19}{40}$ _____

20. $\frac{7}{20}$ _____

Mixed Review21. Joanne has \$0.66. She has 5 coins. What could they be?

_____22. Michele was making tuna salad for a party. The recipe for 10 servings called for 8 oz of mayonnaise. A total of 240 people were expected to be at the brunch. How much mayonnaise would Michele need?
_____23. Order 7.491, 7.049, 7.794 from least to greatest.
_____24. Round 45.89745 to the nearest ten-thousandths place.
_____25. How much greater is 24×36 than 23×35 ?

26. $\frac{3}{10} + \frac{8}{10} =$ _____ 27. $\frac{4}{15} + \frac{7}{15} =$ _____ 28. $\frac{10}{12} - \frac{6}{12} =$ _____ 29. $\frac{14}{29} - \frac{11}{29} =$ _____

30. $\frac{15}{40} -$ _____ $= \frac{1}{5}$ 31. _____ $+ \frac{13}{52} = \frac{27}{52}$ 32. $\frac{4}{19} +$ _____ $= \frac{11}{19}$ 33. $\frac{17}{20} -$ _____ $= \frac{1}{2}$

PW70 Practice

Introduction to Exponents

Write in exponent form.

1. 10,000,000,000

2. 100,000

3. 100,000,000

4. 1,000,000,000

5. 10,000

6. 100,000,000,000

Find the value.

7. 10^9

8. 10^6

9. 10^4

10. 10^5

11. 10^7

12. 10^{10}

Find the value of n .

13. $10 \times n \times 10 = 10^3$

14. $100,000 = 10^n$

15. $1,000,000 = 10^n$

Compare. Write $<$, $>$, or $=$ in each \bigcirc .

16. $10,000 \bigcirc 10^5$

17. $10^4 \bigcirc 10,000$

18. $10 \times 100 \bigcirc 10^3$

Mixed ReviewOrder from *least* to *greatest*.

19. 1.939, 1.393, 3.919, 91.93, 3.199

Order from *greatest* to *least*.

20. 2.345, 2.543, 2.435, 2.534, 2.453

Compare. Write $<$, $>$, or $=$ in each \bigcirc .

21. $5.9376 \bigcirc 5.3897$

22. $8.639 \bigcirc 8,639$

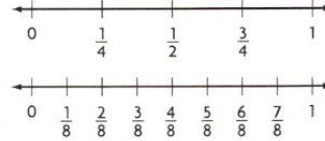
23. $3,384,844 \bigcirc 3,038,484$

24. William gives $\frac{3}{6}$ of his energy bar to James and $\frac{1}{2}$ to Phyllis. How much does William have left?

25. What type of graph would you use to display the ages of students in your classroom?

Equivalent Fractions

Use the number lines to name an equivalent fraction for each.



1. $\frac{1}{4}$ _____ 2. $\frac{4}{8}$ _____ 3. $\frac{3}{4}$ _____

Write an equivalent fraction. Use multiplication or division.

4. $\frac{2}{4}$ _____ 5. $\frac{18}{20}$ _____ 6. $\frac{3}{8}$ _____ 7. $\frac{7}{21}$ _____
 8. $\frac{3}{5}$ _____ 9. $\frac{2}{15}$ _____ 10. $\frac{8}{12}$ _____ 11. $\frac{10}{16}$ _____

Which fraction is *not* equivalent to the given fraction? Circle *a*, *b*, or *c*.

12. $\frac{2}{3}$ a. $\frac{6}{9}$ b. $\frac{5}{6}$ c. $\frac{8}{12}$ 13. $\frac{9}{15}$ a. $\frac{3}{5}$ b. $\frac{18}{30}$ c. $\frac{16}{25}$
 14. $\frac{6}{8}$ a. $\frac{10}{12}$ b. $\frac{3}{4}$ c. $\frac{24}{32}$ 15. $\frac{3}{7}$ a. $\frac{6}{14}$ b. $\frac{14}{28}$ c. $\frac{21}{49}$

Mixed Review

16. René and 6 friends decide to order lasagna. Each tray of lasagna is cut into 12 pieces. How many trays of lasagna will they have to buy in order for everyone to get 3 pieces? How many pieces will be left over?

17. Andy bought a pack of 16 pencils and gave 4 pencils away to friends. Write two equivalent fractions to represent the part of the pencils that Andy gave away.

Solve the equation.

18. $5 \times n = 60$ 19. $60 \div n = 6$ 20. $75 + n = 90$ 21. $n - 3 = 9$

22. $n \times 8 = 32$ 23. $144 \div n = 12$ 24. $26 + n = 64$ 25. $18 - n = 7$

PW84 Practice