

## **SUMMER MATH REVIEW PACKET**

**In preparation for 7<sup>th</sup> Grade Pre-Algebra Honors  
(Answers are attached)**

**Viewpoint School Department of Mathematics asks incoming Middle School students to complete a summer review packet. By completing the attached problems, students will continue to practice concepts that they have already learned and sharpen their basic skills.**

**Please complete the work on separate paper and number each problem. We ask that you do not use a calculator for computation and you show all steps required to solve each problem.**

**The review packet is due upon your return to school in September. Your math teacher will collect your packet, along with the attached work, on the first day of your math class.**

**We also ask that you continue to practice your multiplication and division facts up through 144. For practice you may refer to:  
<http://www.theteacherscafe.com/Worksheets/Math/Multiplication-Division.htm>**

**If you have any questions, please email: [hmeriwether@viewpoint.org](mailto:hmeriwether@viewpoint.org)**

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**CUMULATIVE TEST**—Chapters 1–3**DIRECTIONS:** Write the answer in the space provided.**Chapter 1**Evaluate each expression if  $a = 4$  and  $b = 10$ .

1.  $12 + b$

2.  $2ab$

Simplify.

3.  $13 + 0 + 2$

4.  $8x + x$

5.  $(6 \times 15) + (6 \times 35)$

6.  $(4 + 8) \div 4 + 2$

List any extra fact or any needed fact.

7. Mark bought a shirt for \$10, a coat for \$80, and a book for \$3.75. How much did he spend on clothes?

Solve, using the five-step plan.

8. Marie took a friend to lunch at The Salad Shop. Marie had a chef's salad for \$4.95 and a glass of milk for 50¢. Her friend had a fruit salad for \$4.50 and a glass of milk. If the tax and tip came to \$2.09, how much did she spend for the lunch?

**Chapter 2**

Write a variable expression for each word phrase.

9. A number
- $x$
- plus 2.

10. Four times a number
- $y$
- .

Write an equation for each word sentence.

11. Ten plus a number
- $y$
- is fifteen.

12. Two more than a number
- $n$
- is six.

Replace each ? with  $>$  or  $<$ .

13.  $423 \underline{\quad ? \quad} 432$

14.  $210 \underline{\quad ? \quad} 201 \underline{\quad ? \quad} 102$

**ANSWERS**

1. \_\_\_\_\_ (2)

2. \_\_\_\_\_ (2)

3. \_\_\_\_\_ (2)

4. \_\_\_\_\_ (2)

5. \_\_\_\_\_ (2)

6. \_\_\_\_\_ (2)

7. \_\_\_\_\_ (4)

8. \_\_\_\_\_ (4)

9. \_\_\_\_\_ (2)

10. \_\_\_\_\_ (2)

11. \_\_\_\_\_ (3)

12. \_\_\_\_\_ (3)

13. \_\_\_\_\_ (3)

14. \_\_\_\_\_ (3)

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**CUMULATIVE TEST**—Chapters 1–3 (*continued*)

Write an inequality for each word sentence.

15. Two plus a number  $n$  is less than ten.  
 16. Ten is between five and fifteen.

Solve.

17.  $13 + y = 20$       18.  $m + 8 < 6$       19.  $6y - 2 = 58$   
 20. A number decreased by two is twelve. What is the number?  
 21. There are 46 coins on the table. Thirty of the coins are nickels and the rest are pennies. How many pennies are on the table?

**Chapter 3**

22. Evaluate  $10^5$ .  
 23. Write 6200 in expanded notation with exponents.  
 24. Write 6.41 in expanded notation.  
 25. Write the numbers 6.21, 6.12, 6.20 in order from least to greatest.  
 26. Round 843.4872 to the nearest hundredth.

Estimate the answer. Then compute the answer.

27.  $4.4 + 0.22$       28.  $8.4 - 6.14$   
 29.  $9.31 + (6.4 - 3.2)$   
 30. Write 432,000,000 in scientific notation.

Estimate the answer. Then compute the answer.

31.  $26 \times 0.13$       32.  $0.041 \times 0.92$   
 33.  $204.8 + 32$       34.  $2.8 \times 0.12 \div 0.14$

Estimate the answer. Then solve.

35. A family budget for five allocates \$2100 for clothes each year. How much money can each member of the family spend each month without going over the budget?

**ANSWERS**

15. \_\_\_\_\_ (3)  
 16. \_\_\_\_\_ (3)  
 \_\_\_\_\_  
 17. \_\_\_\_\_ (3)  
 18. \_\_\_\_\_ (3)  
 19. \_\_\_\_\_ (3)  
 20. \_\_\_\_\_ (3)  
 21. \_\_\_\_\_ (3)  
 22. \_\_\_\_\_ (3)  
 23. \_\_\_\_\_ (3)  
 \_\_\_\_\_  
 24. \_\_\_\_\_ (3)  
 \_\_\_\_\_  
 25. \_\_\_\_\_ (3)  
 \_\_\_\_\_  
 26. \_\_\_\_\_ (3)  
 27. \_\_\_\_\_ (3)  
 28. \_\_\_\_\_ (3)  
 29. \_\_\_\_\_ (3)  
 30. \_\_\_\_\_ (3)  
 31. \_\_\_\_\_ (3)  
 32. \_\_\_\_\_ (3)  
 33. \_\_\_\_\_ (3)  
 34. \_\_\_\_\_ (3)  
 35. \_\_\_\_\_ (4)



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**CUMULATIVE TEST**—Chapters 4–6 (continued)

Find each of the following.

18. GCF(24, 36)

19. GCF(90, 125)

20. LCM(8, 12)

21. LCM(18, 24)

**Chapter 6**

Complete.

22.  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = ?$

23.  $\frac{1}{3} \times 3 = ?$

24.  $\frac{3}{5} = \frac{?}{20}$

25.  $\frac{5}{12} = \frac{10}{?}$

Write in the lowest terms.

26.  $\frac{12}{20}$

27.  $\frac{24}{64}$

28. Change  $\frac{13}{5}$  to a mixed number in simple form.29. Change  $4\frac{3}{8}$  to an improper fraction.

Which fraction is greater?

30.  $\frac{5}{9}$ ,  $\frac{7}{12}$

31.  $\frac{16}{35}$ ,  $\frac{21}{40}$

Change each fraction to a decimal.

32.  $\frac{4}{25}$

33.  $\frac{5}{18}$

34. Arrange in order from least to greatest:  $0.\overline{6}$ ,  $0.\overline{62}$ ,  $0.6\overline{2}$ .

Change each decimal to a fraction in lowest terms.

35. 0.58

36.  $0.\overline{8}$

**ANSWERS**

18. \_\_\_\_\_ (2)

19. \_\_\_\_\_ (2)

20. \_\_\_\_\_ (3)

21. \_\_\_\_\_ (3)

22. \_\_\_\_\_ (3)

23. \_\_\_\_\_ (3)

24. \_\_\_\_\_ (3)

25. \_\_\_\_\_ (3)

26. \_\_\_\_\_ (4)

27. \_\_\_\_\_ (4)

28. \_\_\_\_\_ (4)

29. \_\_\_\_\_ (4)

30. \_\_\_\_\_ (4)

31. \_\_\_\_\_ (4)

32. \_\_\_\_\_ (4)

33. \_\_\_\_\_ (4)

34. \_\_\_\_\_ (4)

35. \_\_\_\_\_ (4)

36. \_\_\_\_\_ (4)

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**CUMULATIVE TEST—Chapters 7–9**

DIRECTIONS: Write the answer in the space provided.

**Chapter 7**

Add or subtract. Simplify.

1.  $\frac{1}{2} + \frac{5}{8}$

2.  $\frac{3}{4} - \frac{1}{3}$

3.  $3\frac{2}{3} + 4\frac{1}{6}$

4.  $7\frac{1}{10} - 3\frac{5}{8}$

Multiply or divide. Simplify.

5.  $6 \times \frac{2}{5}$

6.  $\frac{3}{8} \times \frac{4}{5}$

7.  $\frac{7}{8} \div 14$

8.  $\frac{7}{12} \div \frac{1}{3}$

9.  $1\frac{1}{8} \div 6\frac{2}{3}$

10.  $6\frac{2}{5} \div 2\frac{2}{3}$

11. Write the ratio 8 in. : 2 ft in lowest terms.

Solve.

12.  $\frac{n}{32} = \frac{3}{4}$

13.  $\frac{4}{15} = \frac{16}{n}$

14. A car traveled 396 mi on 16 gal of gasoline. How far could it travel on 8 gal of gasoline?

15. What is the scale of a drawing in which a 4-ft wide doorway is drawn 2 in. wide?

**Chapter 8**

Solve each equation using the given replacement set. If the equation has no solution, so state.

16.  $13 + 6n = 37$  {0, 1, 2, 3}

17.  $8 + y = 4 + y + 4$  {0, 2, 4, 6}

18.  $3x + 2 = 14$  {0, 2, 4, 6}

**ANSWERS**

1. \_\_\_\_\_ (2)

2. \_\_\_\_\_ (2)

3. \_\_\_\_\_ (2)

4. \_\_\_\_\_ (2)

5. \_\_\_\_\_ (2)

6. \_\_\_\_\_ (2)

7. \_\_\_\_\_ (2)

8. \_\_\_\_\_ (2)

9. \_\_\_\_\_ (2)

10. \_\_\_\_\_ (2)

11. \_\_\_\_\_ (3)

12. \_\_\_\_\_ (3)

13. \_\_\_\_\_ (3)

14. \_\_\_\_\_ (3)

15. \_\_\_\_\_ (3)

16. \_\_\_\_\_ (3)

17. \_\_\_\_\_ (3)

18. \_\_\_\_\_ (3)

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**CUMULATIVE TEST**—Chapters 7–9 (continued)

Use transformations to solve each equation.

19.  $16 + x = 42$

20.  $\frac{n}{7} = 15$

21.  $0.36y = 0.936$

22.  $13 - \frac{1}{4}n = 10$

Write an equation for the problem. Use Steps 1–3.

23. Pat is 2 years less than three times his sister's age. If Pat is 13, how old is his sister?

Solve, using the five-step method.

24. One third of the student body is taking a music class. If 540 students are taking a music class, how many students are there in all?

**Chapter 9**

25. Express 40% as a fraction in lowest terms.
26. Express  $1\frac{1}{2}$  as a percent.
27. Express 33% as a decimal.
28. Express 0.043 as a percent.
29. What is 30% of 60?
30. 48 is what percent of 240?
31. 16 is 40% of what number?
32. What is the percent decrease from 35 to 28?
33. A sweater that regularly sells for \$25 is on sale for \$20. What is the percent discount?
34. Mary Stuart earns a 6% commission on her sales of merchandise at Riches Department Store. Her commission for last week was \$555. What were her sales for the week?
35. What is the simple interest on a \$2000 loan for 2 yr at 18%?
36. A bank pays 9% interest compounded quarterly. How much will \$3000 amount to after 6 mo?

**ANSWERS**

19. \_\_\_\_\_ (3)

20. \_\_\_\_\_ (3)

21. \_\_\_\_\_ (3)

22. \_\_\_\_\_ (3)

23. \_\_\_\_\_ (3)

24. \_\_\_\_\_ (3)

25. \_\_\_\_\_ (3)

26. \_\_\_\_\_ (3)

27. \_\_\_\_\_ (3)

28. \_\_\_\_\_ (3)

29. \_\_\_\_\_ (3)

30. \_\_\_\_\_ (3)

31. \_\_\_\_\_ (3)

32. \_\_\_\_\_ (3)

33. \_\_\_\_\_ (3)

34. \_\_\_\_\_ (3)

35. \_\_\_\_\_ (4)

36. \_\_\_\_\_ (4)

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**CUMULATIVE TEST**—Chapters 10–12**DIRECTIONS:** Write the answer in the space provided.**Chapter 10**

Find the area of each figure described.

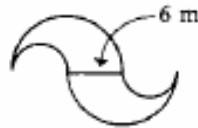
1. parallelogram  
base: 12 cm  
height: 8 cm

2. triangle  
base: 8 m  
height: 9 m

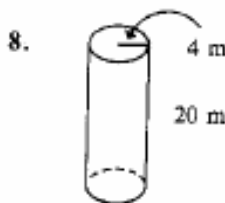
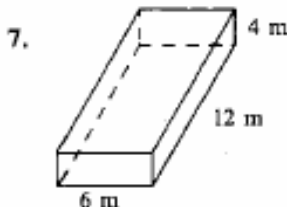
3. circle: Use  $\pi \approx 3.14$ .  
diameter: 10 m

4. circle: Use  $\pi \approx \frac{22}{7}$ .  
radius: 3.5 cm

5. Find the area of this symmetric figure.  
Use  $\pi \approx 3.14$ .



6. Make a sketch of a square pyramid.

Find the volume. Use  $\pi \approx 3.14$ .

9. What is the mass of  $2 \text{ m}^3$  of water?  
 $1 \text{ cm}^3$  of water has a mass of 1g.

10. Find the surface area of the cylinder in Exercise 8.  
Use  $\pi \approx 3.14$ .

**Chapter 11**Replace  $\_?$  with  $<$  or  $>$ .

11.  $-5 \_?$   $-6$

12.  $-8 \_?$   $4$

Perform the indicated operations.

13.  $-3 + 4$

14.  $4 - -6$

15.  $-5 \times 4$

16.  $-8 \times -2$

17.  $-2 \times -4 \times -5$

18.  $32 \div -8$

Solve.

19.  $x - -2 = -4$

20.  $-\frac{1}{2}x = 5$

**ANSWERS**

1. \_\_\_\_\_ (3)

2. \_\_\_\_\_ (3)

3. \_\_\_\_\_ (3)

4. \_\_\_\_\_ (3)

5. \_\_\_\_\_ (4)

6. \_\_\_\_\_ (4)

7. \_\_\_\_\_ (3)

8. \_\_\_\_\_ (3)

9. \_\_\_\_\_ (3)

10. \_\_\_\_\_ (4)

11. \_\_\_\_\_ (3)

12. \_\_\_\_\_ (3)

13. \_\_\_\_\_ (3)

14. \_\_\_\_\_ (3)

15. \_\_\_\_\_ (3)

16. \_\_\_\_\_ (3)

17. \_\_\_\_\_ (3)

18. \_\_\_\_\_ (3)

19. \_\_\_\_\_ (3)

20. \_\_\_\_\_ (3)

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## CUMULATIVE TEST— Chapters 10–12 (continued)

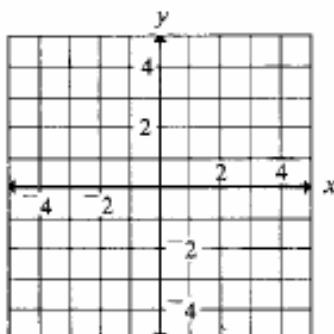
Use the grid on the right for Exercises 21 and 22.

21. Graph each ordered pair:

$$(-2, 1), (-4, -2), (3, -2)$$

22. Graph this equation.

Use values of  $x$  from  $-2$  to  $2$ .  
 $y = 2 - x$



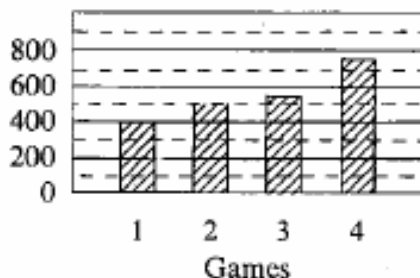
### Chapter 12

Exercises 23 and 24 refer to the bar graph.

23. Which game had the highest attendance?

24. How many attended game 3?

Football Game Attendance



Find each for the numbers 14, 16, 19, 12, 19, 20, and 19.

25. the mean

26. the mode

Exercises 27–29 refer to the frequency table.

27. What is the mean?

28. What is the median?

29. Draw a histogram for the data.  
Use another sheet of paper.

Pushups by Students in a Gym Class

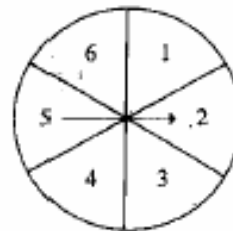
Pushups	Frequency
20	5
25	6
30	4
35	4
40	1

Exercises 30–32 refer to this spinner.

30. Find the probability that the spinner stops on 6.

31. Find the odds in favor of the spinner stopping on an odd number.

32. Find  $P(\text{odd or greater than } 2)$ .



### ANSWERS

21. \_\_\_\_\_ (3)  
 22. \_\_\_\_\_ (4)  
 23. \_\_\_\_\_ (3)  
 24. \_\_\_\_\_ (3)  
 25. \_\_\_\_\_ (3)  
 26. \_\_\_\_\_ (3)  
 27. \_\_\_\_\_ (3)  
 28. \_\_\_\_\_ (3)  
 29. \_\_\_\_\_ (3)  
 30. \_\_\_\_\_ (3)  
 31. \_\_\_\_\_ (3)  
 32. \_\_\_\_\_ (3)

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## CUMULATIVE REVIEW—Chapters 1–12

### Exercises

Perform the indicated operations.

- $4(2 + 25)$  \_\_\_\_\_
- $46 + 8 \times 46$  \_\_\_\_\_
- $26 \times 101$  \_\_\_\_\_
- $\frac{1}{3} + 4\frac{1}{2} + 3\frac{5}{6}$  \_\_\_\_\_
- $4\frac{1}{2} \times 3\frac{1}{6} - 6\frac{1}{2}$  \_\_\_\_\_
- $(3\frac{1}{2} + 2\frac{1}{3}) \div 2\frac{1}{3}$  \_\_\_\_\_
- $5\frac{1}{4} \div (4\frac{1}{3} - 2\frac{5}{6})$  \_\_\_\_\_
- $5 + ^{-}7$  \_\_\_\_\_
- $8 - ^{-}2$  \_\_\_\_\_
- $4 - 12$  \_\_\_\_\_
- $^{-}2 \times ^{-}3$  \_\_\_\_\_
- $^{-}4 \times 6$  \_\_\_\_\_
- $^{-}18 \div ^{-}6$  \_\_\_\_\_
- Find the surface area of a cube measuring 2.5 cm on a side. \_\_\_\_\_
- One side of a regular hexagon measures 1.2 m. What is the perimeter? \_\_\_\_\_

List all the factors of each number.

- 48 \_\_\_\_\_
- 57 \_\_\_\_\_
- 120 \_\_\_\_\_

Change each decimal to a fraction.

- 0.426 \_\_\_\_\_
- 0.05 \_\_\_\_\_
- $0.\overline{3}$  \_\_\_\_\_

Solve.

- $5 + n = 16$  \_\_\_\_\_
- $y - 4 = 6$  \_\_\_\_\_
- $3n = 15$  \_\_\_\_\_
- $4n - 14 = 62$  \_\_\_\_\_
- $2n + 21 = 37$  \_\_\_\_\_
- $\frac{2}{5}x + 3\frac{1}{2} = 5\frac{1}{2}$  \_\_\_\_\_
- $\frac{3}{4}y - \frac{1}{8} = \frac{1}{4}$  \_\_\_\_\_
- $3.46y - 2.12 = 8.952$  \_\_\_\_\_
- $\frac{y}{0.6} + 3.3 = 24.3$  \_\_\_\_\_
- $3x + 61 = 16$  \_\_\_\_\_
- $6x - 42 = ^{-}450$  \_\_\_\_\_
- 30% of 330 is what number? \_\_\_\_\_
- 160 is what percent of 40? \_\_\_\_\_
- 12 is 6% of what number? \_\_\_\_\_

Ten cards are numbered 1, 2, 3, ..., 10, put into a box, and mixed. A card is drawn at random. Find the following probabilities.

- $P(\text{odd})$  \_\_\_\_\_
- $P(\text{multiple of } 2)$  \_\_\_\_\_
- $P(\text{prime or even})$  \_\_\_\_\_

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## CUMULATIVE REVIEW—Chapters 1–12 (continued)

### Problems

#### Problem Solving Reminders

Here are some reminders that may help you solve some of the problems on this page.

- Determine whether an equation can be used.
- Consider whether drawing a sketch will help.
- Determine whether a formula applies.

#### Solve.

1. The temperature on a day in February reached a high of  $-2^{\circ}\text{C}$ . If the low temperature for the day was  $-16^{\circ}\text{C}$ , how much higher was the high temperature than the low temperature? \_\_\_\_\_
2. George Jones bought 40 notebooks. If each notebook costs \$3.49 and the sales tax is 5%, how much did he pay for the notebooks? \_\_\_\_\_
3. A cylindrical chemical underground storage tank has a height of 15 m and a radius of 3 m. Find the volume. Use  $\pi \approx 3.14$ . \_\_\_\_\_
4. A brick chimney is  $22\frac{1}{2}$  ft high. If each brick has a height of  $2\frac{1}{4}$  in., how many rows of bricks are in the chimney? \_\_\_\_\_
5. During shipment two out of a hundred oriental vases are broken. What are the odds of receiving a broken vase? \_\_\_\_\_
6. A square play yard has an area of  $144\text{ m}^2$ . How much fencing is needed to enclose the play yard? \_\_\_\_\_
7. The student council conducted an opinion poll to determine whether or not students favored having a shorter lunch period to increase the length of the homeroom period. There were 138 in favor of the shorter lunch period, 320 opposed, and 42 had no opinion. What fraction of those polled were in favor of or had no opinion about the change? \_\_\_\_\_
8. Marie Gomez bought a \$5000 savings certificate that pays 10% interest compounded semiannually. How much interest does she receive at the end of  $1\frac{1}{2}$  years? \_\_\_\_\_
9. The value of Mark Vogelsong's house has increased \$6000 more than twice what he paid for it 10 years ago. If the house is worth \$95,000 now, what did Mark pay for it originally? \_\_\_\_\_
10. Lucy needs to wrap a large gift that measures 1.5 m long, 1.2 m wide, and 2 m high. If one roll of gift wrap covers  $1.2\text{ m}^2$ , how many rolls does she need? \_\_\_\_\_

**Answer Key:**

**Chapters 1 – 3**

- CUMULATIVE TEST 3-43** 1. 22 2. 80 3. 15  
 4. 8 5. 300 6. 5 7. extra fact—book for \$3.75  
 8. \$12.54 9.  $x + 2$  10.  $4y$  11.  $10 + y = 15$   
 12.  $n + 2 = 6$  13.  $<$  14.  $>, >$

- CUMULATIVE TEST 3-44** 15.  $2 + n < 10$   
 16.  $5 < 10 < 15$  or  $15 > 10 > 5$  17. 7 18.  $n < 48$   
 19. 10 20. 14 21. 16 22. 100,000  
 23.  $6(10^3) + 2(10^2)$  24.  $6(1) + 4(0.1) + 1(0.01)$   
 25. 6.12, 6.20, 6.21 26. 843.49 27. 4.62 28. 2.26  
 29. 12.51 30.  $4.32 \times 10^8$  31. 3.38 32. 0.03772  
 33. 6.4 34. 2.4 35. S35

**Chapters 4 – 6**

- CUMULATIVE TEST 6-81** 1.  $\overline{AB}$  and  $\overline{AC}$   
 2.  $\overline{CD}$  or  $\overline{CA}$  3. 8.5 4. 3600 5.  $150^\circ$   
 6. true 7. 2 8.  $110^\circ$  9. hexagon 10. 52 cm  
 11. 37.68 m 12.  $YZ$  13. check construction  
 14. 1, 2, 3, 4, 6, 8, 12, 20 15. 2, 3, 4, 5, 10 16. 9  
 17.  $2 \times 5^2$

- CUMULATIVE TEST 6-82** 18. 12 19. 5 20. 24  
 21. 72 22.  $\frac{3}{4}$  23. 1 24. 12 25. 24 26.  $\frac{3}{5}$   
 27.  $\frac{3}{8}$  28.  $2\frac{3}{5}$  29.  $\frac{35}{8}$  30.  $\frac{7}{12}$  31.  $\frac{21}{40}$   
 32. 0.16 33. 0.27 34. 0.62, 0.62, 0.6 35.  $\frac{29}{50}$   
 36.  $\frac{8}{9}$

**Chapters 7 – 9**

- CUMULATIVE TEST 9-119** 1.  $1\frac{1}{8}$  2.  $\frac{5}{12}$   
 3.  $7\frac{5}{8}$  4.  $3\frac{19}{40}$  5.  $2\frac{2}{3}$  6.  $\frac{3}{10}$  7.  $\frac{1}{16}$   
 8.  $1\frac{3}{4}$  9.  $\frac{27}{100}$  10.  $2\frac{2}{3}$  11. 1:3 12. 24  
 13. 60 14. 198 mi 15. 1 in.:2 ft 16. no solution  
 17. 0, 2, 4, 6 18. 4

- CUMULATIVE TEST 9-120** 19. 26 20. 105  
 21. 2.6 22. 12 23.  $3x - 2 = 13$  24. 1620  
 25.  $\frac{2}{3}$  26. 150% 27. 0.33 28. 4.3% 29. 18  
 30. 20% 31. 40 32. 20% 33. 20%  
 34. \$9250 35. \$720 36. \$3136.52

**Chapters 10 – 12**

- CUMULATIVE TEST 12-157** 1.  $96 \text{ cm}^2$  2.  $36 \text{ m}^2$   
 3.  $78.5 \text{ m}^2$  4.  $38.5 \text{ cm}^2$  5.  $84.78 \text{ m}^2$

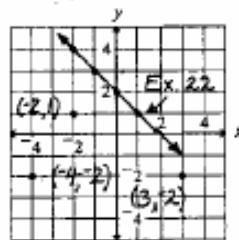
6.



7.  $288 \text{ m}^3$  8.  $1004.8 \text{ m}^3$  9. 2000 kg  
 10.  $602.88 \text{ m}^2$  11.  $>$  12.  $<$  13. 1 14. 10  
 15. -20 16. 16 17. -40 18. -4 19. -6  
 20. -10

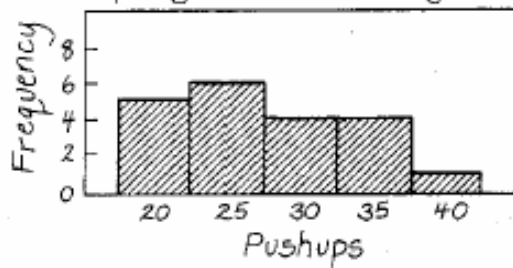
**CUMULATIVE TEST 12-158**

21.-22.



23. game 4 24. 550 25. 17 26. 19 27. 27.5  
 28. 25

29. Pushups by Students in a Gym Class



30.  $\frac{1}{6}$  31. 1 to 1 or even 32.  $\frac{5}{6}$

**Chapters 1 – 12**

- CUMULATIVE REVIEW 12-155** 1. 108 2. 8  
 3. 2626 4.  $8\frac{2}{3}$  5.  $7\frac{3}{4}$  6.  $2\frac{1}{2}$  7.  $3\frac{1}{2}$   
 8. -2 9. 10 10. -8 11. 6 12. -24  
 13. 3 14.  $37.5 \text{ cm}^2$  15. 7.2 m 16. 1, 2, 3, 4, 6,  
 8, 12, 16, 24, 48 17. 1, 3, 19, 57 18. 1, 2, 3, 4, 5,  
 6, 8, 10, 12, 15, 20, 24, 30, 40, 60, 120 19.  $\frac{213}{500}$   
 20.  $\frac{1}{20}$  21.  $\frac{1}{3}$  22. 11 23. 10 24. 5 25. 19  
 26. 8 27. 5 28.  $\frac{1}{2}$  29. 3.2 30. 12.6  
 31. -15 32. -68 33. 99 34. 400%  
 35. 200 36.  $\frac{1}{2}$  37.  $\frac{1}{2}$  38.  $\frac{4}{5}$

- CUMULATIVE REVIEW 12-156** 1.  $14^\circ$  higher  
 2. \$146.58 3.  $423.9 \text{ m}^3$  4. 120 rows 5. 1:49  
 6. 48 m 7.  $\frac{9}{25}$  8. \$788.13 9. \$44,500  
 10. 12 rolls