

Name:

SUMMER MATH

COMPLETE THE FOLLOWING PACKET OVER SUMMER TO REVIEW IDEAS FROM THIS PAST YEAR AND TO MAINTAIN YOUR MATH SKILLS - THERE ALSO MAY BE CONCEPTS IN THE PACKET YOU DON'T KNOW YET- DO YOUR BEST ON THEM - THE PACKET WILL ALSO BE USED TO SEE ASSESS WHAT IDEAS NEED COVERING

IT WILL BE TAKEN AS A GRADE TOWARD NEXT YEAR BASED ON EFFORT AND COMPLETION SO DO THE BEST YOU CAN ON THE PACKET AND MAKE SURE TO SHOW ALL YOUR WORK

DO NOT WAIT UNTIL THE LAST MINUTE TO COMPLETE THE PACKET. USE NOTES AND OTHER RESOURCES HELP YOU DO THE VARIOUS PROBLEMS THAT ARE IN THE PACKET

Choose the correct letter.

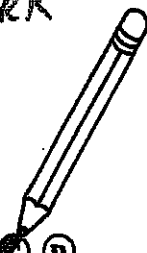
Sample:

42,000 is

- A. 420 thousand
 B. 42 million
 C. 42 thousand
 D. none of these

 SHOW WORK
 ON
 SEPARATE
 SHEET

(A) (B) (C) (D)



First decide which answer is correct. Then find the problem number on your answer sheet and darken in the space for the correct answer. In the sample, c is the correct answer.

1. 700,040 is

- A. 7 million, 40.
 B. 700 thousand, 40
 C. 7 billion, 40
 D. none of these

2. 91,060,000 is

- A. 91 million, 6 thousand
 B. 91 billion, 60 million
 C. 91 million, 60 million
 D. none of these

3. Add. $53,237$
 $+18,965$

- A. 72,202
 B. 61,192
 C. 62,192
 D. none of these

4. 527 rounded to the nearest hundred is

- A. 500
 B. 520
 C. 530
 D. 600

5. 19,958 rounded to the nearest thousand is

- A. 19,000
 B. 19,900
 C. 19,960
 D. 20,000

6. 35,000 rounded to the nearest ten thousand is

- A. 30,000
 B. 35,000
 C. 36,000
 D. 40,000

7. 6.08 is

- A. 6 and 8 tenths
 B. 6 and 8 hundredths
 C. 6 and 8 thousandths
 D. none of these

8. 12.051 is

- A. 12 and 51 hundredths
 B. 12 and 51 thousandths
 C. 12 and 51 ten-thousandths
 D. none of these

9. 4.45 rounded to the nearest tenth is

- A. 4.5
 B. 4.4
 C. 4.0
 D. none of these

10. 6.395 rounded to the nearest hundredth is

- A. 6.4
 B. 6.39
 C. 6.40
 D. none of these

Choose the correct letter.

11. $12.942 + 8.377 = ?$

- A. 21.319
 B. 20.219
 C. 20.319
 D. none of these

12. $2.09 + 5.1 + 7.83 = ?$

- A. 10.43
 B. 14.92
 C. 15.02
 D. none of these

13.

\$2.75
ONE ADULT\$1.25
ONE CHILD

The total cost of one adult ticket and one child's ticket is

- A. \$2.50 B. \$3.75
 C. \$5.50 D. none of these

14.

\$2.75
ONE ADULT\$1.25
ONE CHILD

The total cost of two adult tickets and one child's ticket is

- A. \$5.50 B. \$5.25
 C. \$6.75 D. none of these

15. $2816 < ?$

- A. 2544
 B. 2810
 C. 2717
 D. 2861

16. $583,096 > ?$

- A. 584,096
 B. 583,960
 C. 583,906
 D. 583,069

17. Subtract.
$$\begin{array}{r} 24,216 \\ - 9,378 \\ \hline \end{array}$$

- A. 15,162
 B. 33,594
 C. 14,838
 D. none of these

18. Subtract.
$$\begin{array}{r} 32,205 \\ -17,476 \\ \hline \end{array}$$

- A. 14,739
 B. 14,729
 C. 14,839
 D. none of these

19. $3.1 > ?$

- A. 3.2
 B. 3.10
 C. 3.01
 D. none of these

20. $0.076 < ?$

- A. 0.76
 B. 0.067
 C. 0.07
 D. none of these

21. $6.03 - 4.55 = ?$

- A. 2.52
 B. 1.48
 C. 1.58
 D. none of these

22. $52 - 4.9 = ?$

- A. 3.1
 B. 48.9
 C. 47.1
 D. none of these

23. $26.3 - 1.527 = ?$

- A. 24.773
 B. 24.827
 C. 24.783
 D. none of these

24. Blue jeans that regularly cost \$24.35 are on sale for \$17.79. How much do you save if you buy a pair on sale?

- A. \$13.44 B. \$6.56
 C. \$7.66 D. none of these

25. You had \$20. You bought 2 shirts for \$8.79 each. How much money did you have then?

- A. \$3.58 B. \$11.21
 C. \$2.42 D. none of these

Choose the correct letter.

26. $18 \times 100 = ?$

- A. 18
 B. 180
 C. 1800
 D. none of these

27. $200 \times 30 = ?$

- A. 600
 B. 6000
 C. 60,000
 D. none of these

28. Multiply.
$$\begin{array}{r} 537 \\ \times 8 \\ \hline \end{array}$$

- A. 4296
 B. 4046
 C. 4096
 D. none of these

29. Multiply.
$$\begin{array}{r} 342 \\ \times 37 \\ \hline \end{array}$$

- A. 11,444
 B. 3420
 C. 12,554
 D. none of these

30. Multiply.
$$\begin{array}{r} 621 \\ \times 308 \\ \hline \end{array}$$

- A. 191,168
 B. 23,598
 C. 191,268
 D. none of these

31. $4.6 \times 1.7 = ?$

- A. 78.2
 B. 7.82
 C. 7.42
 D. none of these

32. $1.02 \times 0.02 = ?$

- A. 0.0204
 B. 0.204
 C. 2.04
 D. none of these

33. $4.5 + (3.2 \times 0.6) = ?$

- A. 0.462
 B. 23.7
 C. 6.42
 D. 8.3

34. $16 - (6.64 \times 1.03) = ?$

- A. 10.8392
 B. 9.1608
 C. 9.6408
 D. 10.9592

35. $7.75 \times 100 = ?$

- A. 775
 B. 77.5
 C. 0.775
 D. 0.0775

36. $9.06 \times 1000 = ?$

- A. 90.6
 B. 906
 C. 9060
 D. 90,600

37.

APPLES
 \$.65 per lb

How much will 2.4
 pounds of apples cost?

- A. \$15.60
 B. \$1.44
 C. \$1.56
 D. none of these

38.

APPLES
 \$.65 per lb

ORANGES
 \$.84 per lb

What is the total price of
 1.8 pounds of apples and
 2.5 pounds of oranges?

- A. \$3.27
 B. \$3.14
 C. \$2.75
 D. none of these

39. Divide. $6 \overline{)642}$

- A. 17
 B. 107
 C. 108
 D. none of these

40. Divide. $63 \overline{)2150}$

- A. 34 R63
 B. 43 R8
 C. 34 R8
 D. none of these

Choose the correct letter.

41. Round the quotient to the nearest whole number.

$$\begin{array}{r} 234 \overline{)59,637} \end{array}$$

- A. 255
- B. 254
- C. 253
- D. none of these

42. $5 + 3 \times 6 = ?$

- A. 29
- B. 23
- C. 48
- D. none of these

43. $6 \times 6 + 4 \div 2 = ?$

- A. 20
- B. 30
- C. 38
- D. none of these

44. Round the quotient to the nearest hundredth.

$$4.037 \div 13 = ?$$

- A. 0.31
- B. 0.32
- C. 0.30
- D. none of these

45. $478 \div 10 = ?$

- A. 4780
- B. 4.78
- C. 47.8
- D. none of these

46. $5.6 \div 1000 = ?$

- A. 0.056
- B. 0.56
- C. 0.0056
- D. none of these

47. $0.745 \div 0.05 = ?$

- A. 14.9
- B. 1.49
- C. 149
- D. none of these

48. Round the quotient to the nearest tenth.

$$16.3 \div 0.29 = ?$$

- A. 5.6
- B. 56.2
- C. 562.0
- D. none of these

49. You bought 12 identical posters for \$16.68. How much did each poster cost?

- A. \$1.39
- B. \$1.69
- C. \$200.16
- D. none of these

50. You had \$10. You bought 7 identical postcards. Then you had \$7.27. How much did each postcard cost?

- A. \$1.04
- B. \$1.43
- C. \$.39
- D. none of these

SECOND-QUARTER TEST

(Chapters 5 through 8)

Choose the correct letter.

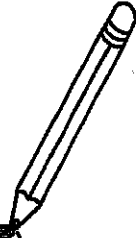
Sample:

Student	Tickets Sold
Beth	JHT JHT IIII
Greg	JHT JHT JHT II

How many tickets did Greg sell?

- A. 14
- B. 12
- C. 22
- D. none of these

(A) (B) (C) (D)



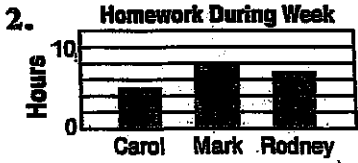
First decide which answer is correct. Then find the problem number on your answer sheet and darken in the space for the correct answer. In the sample, D is the correct answer.

1.

Student	Free Throws Made
Jan	JHT IIII
Sean	JHT JHT I

How many free throws did Sean make?

- A. 14
- B. 11
- C. 13
- D. none of these

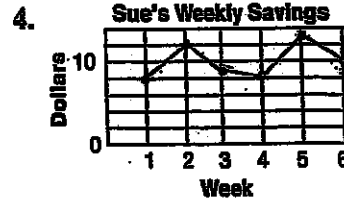


How many hours did Carol spend doing homework?

- A. 3
- B. 5
- C. 10
- D. none of these

3. Look at the graph in exercise 2. Who spent 8 hours doing homework?

- A. Carol
- B. Mark
- C. Rodney
- D. none of these



How much did Sue save during week 4?

- A. \$9
- B. \$4
- C. \$10
- D. none of these

5. Look at the graph in exercise 4. During which week did Sue save \$13?

- A. 2
- B. 4
- C. 5
- D. none of these

6.

Number of Books Read	
Ruth	■ ■ ■ ■
Samuel	■ ■ ■ ■ ■ ■ ■ ■
Tom	■ ■ ■
Each ■ stands for 4 books.	

How many books did Samuel read?

- A. 5
- B. 10
- C. 16
- D. none of these

7. Look at the graph in exercise 6. Sam read how many more books than Tom?

- A. 2
- B. 6
- C. 9
- D. none of these

8. The mean of 23, 35, 37, 37, 34, and 32 is

- A. 14
- B. 33
- C. 37
- D. none of these

9. The median of 58, 46, 53, 49, and 54 is

- A. 53
- B. 52
- C. 12
- D. none of these

10. The mode of 133, 118, 127, 118, 122, and 120 is

- A. 118
- B. 121
- C. 123
- D. none of these

Choose the correct letter.

11. The range of 132, 109, 127, 125, and 127 is

- A. 23
 B. 124
 C. 127
 D. none of these

12. $\frac{3}{4} = ?$

- A. $\frac{4}{5}$
 B. $\frac{9}{12}$
 C. $\frac{8}{9}$
 D. none of these

13. $\frac{12}{18}$ written in lowest terms is

- A. $\frac{6}{9}$
 B. $\frac{4}{6}$
 C. $\frac{2}{3}$
 D. none of these

14. The least common denominator of $\frac{5}{6}$ and $\frac{4}{9}$ is

- A. 6
 B. 18
 C. 54
 D. none of these

15. $\frac{2}{3} < ?$

- A. $\frac{1}{2}$
 B. $\frac{5}{8}$
 C. $\frac{5}{9}$
 D. $\frac{7}{10}$

16. $\frac{3}{4} > ?$

- A. $\frac{3}{5}$
 B. $\frac{3}{2}$
 C. $\frac{5}{4}$
 D. $\frac{5}{6}$

17. $3\frac{2}{3} = ?$

- A. $\frac{9}{3}$ B. $\frac{8}{3}$
 C. $\frac{11}{3}$ D. none of these

18. $\frac{24}{4} = ?$

- A. 6
 B. 4
 C. 8
 D. none of these

19. $\frac{20}{3} = ?$

- A. $6\frac{1}{3}$ B. $6\frac{2}{3}$
 C. $7\frac{1}{3}$ D. none of these

20. $\frac{12}{30}$ written in simplest form is

- A. $\frac{12}{30}$ B. $\frac{4}{10}$
 C. $\frac{2}{5}$ D. none of these

21. $\frac{9}{6}$ written in simplest form is

- A. $\frac{2}{3}$ B. $\frac{3}{2}$
 C. $1\frac{1}{2}$ D. none of these

22. Divide. $6\overline{)382}$

- A. $66\frac{1}{3}$ B. $36\frac{2}{3}$
 C. $66\frac{2}{3}$ D. none of these

23. $\frac{3}{5} = ?$

- A. 0.6
 B. 0.66
 C. 0.35
 D. none of these

24. $2\frac{3}{8} = ?$

- A. 2.25
 B. 2.625
 C. 0.375
 D. none of these

25. $0.4 = ?$

- A. $\frac{4}{5}$
 B. $\frac{1}{25}$
 C. $\frac{2}{5}$
 D. none of these

SECOND-QUARTER TEST

(Chapters 5 through 8)

Choose the correct letter.

26. $1.625 = ?$

- A. $1\frac{5}{8}$ B. $1\frac{3}{8}$
 C. $1\frac{5}{6}$ D. none of these

27. $\frac{5}{8} + \frac{3}{8} = ?$

- A. $\frac{8}{16}$ B. $\frac{1}{8}$
 C. 1 D. none of these

28. $\frac{3}{4} + \frac{2}{3} = ?$

- A. $\frac{5}{7}$ B. $\frac{5}{12}$
 C. $1\frac{5}{12}$ D. none of these

29. $2\frac{1}{4} + 1\frac{2}{5} = ?$

- A. $3\frac{13}{20}$ B. $3\frac{3}{20}$
 C. $3\frac{1}{3}$ D. none of these

30. $3\frac{5}{8} + 1\frac{2}{3} = ?$

- A. $4\frac{7}{11}$ B. $4\frac{7}{24}$
 C. $4\frac{7}{8}$ D. none of these

31. $\frac{5}{6} - \frac{1}{6} = ?$

- A. $\frac{1}{3}$ B. 1
 C. $\frac{2}{3}$ D. none of these

32. $\frac{7}{12} - \frac{1}{4} = ?$

- A. $\frac{1}{3}$ B. $\frac{1}{2}$
 C. $\frac{3}{4}$ D. none of these

33. $3\frac{5}{9} - 1\frac{2}{9} = ?$

- A. $1\frac{1}{3}$ B. $2\frac{1}{3}$
 C. $2\frac{7}{9}$ D. none of these

34. $5\frac{5}{8} - 3\frac{1}{2} = ?$

- A. $2\frac{1}{3}$ B. $2\frac{1}{2}$
 C. $2\frac{1}{8}$ D. none of these

35. Subtract.
$$\begin{array}{r} 6 \\ -4\frac{3}{4} \\ \hline \end{array}$$

- A. $2\frac{3}{4}$
 B. $2\frac{1}{4}$
 C. $1\frac{1}{4}$
 D. none of these

36. One cookie recipe calls for $1\frac{3}{4}$ cups of flour, and another calls for $2\frac{1}{2}$ cups of flour. How many cups of flour are needed for both recipes?

- A. $\frac{3}{4}$ B. $3\frac{1}{4}$
 C. $4\frac{1}{4}$ D. none of these

37. A cake recipe calls for 3 cups of sugar. You have $1\frac{3}{4}$ cups of sugar. How many more cups of sugar will you need?

- A. $4\frac{3}{4}$ B. $2\frac{1}{4}$
 C. $2\frac{3}{4}$ D. none of these

38. $\frac{2}{3} \times \frac{5}{6} = ?$

- A. $\frac{5}{9}$
 B. $\frac{4}{5}$
 C. $1\frac{2}{3}$
 D. none of these

39. $\frac{1}{4}$ of 32 = ?

- A. 8
 B. 16
 C. 24
 D. none of these

40. $\frac{4}{5}$ of 40 = ?

- A. 50
 B. 32
 C. 24
 D. none of these

SECOND-QUARTER TEST

(Chapters 5 through 8)

Choose the correct letter.

41. $4 \times 2\frac{1}{2} = ?$

A. $8\frac{1}{2}$

B. 6

C. 10

D. none of these

42. $1\frac{1}{2} \times 2\frac{2}{3} = ?$

A. 4

B. $\frac{9}{16}$

C. $1\frac{5}{6}$

D. none of these

43. $2\frac{1}{2}$ days = $? h$

A. 24

B. 40

C. 48

D. none of these

44. $1\frac{3}{4}$ ft = $? in.$

A. 28

B. 24

C. 21

D. none of these

45. $1\frac{3}{4}$ gal = $? qt$

A. 7

B. 4

C. 10

D. none of these

46. $\frac{4}{5} \div \frac{2}{3} = ?$

A. $\frac{5}{6}$

B. $\frac{8}{15}$

C. $1\frac{1}{5}$

D. none of these

47. $1\frac{1}{2} \div 2 = ?$

A. 3

B. $1\frac{1}{3}$

C. $\frac{1}{3}$

D. none of these

48. $2\frac{5}{8} \div 1\frac{1}{6} = ?$

A. $2\frac{1}{4}$

B. $\frac{2}{3}$

C. $3\frac{1}{16}$

D. none of these

49. You hiked at the rate of $2\frac{1}{2}$ miles per hour for $1\frac{3}{4}$ hours. How many miles did you hike?

A. $1\frac{3}{7}$

B. $\frac{7}{10}$

C. $4\frac{3}{8}$

D. none of these

50. You hiked $6\frac{3}{4}$ miles in $2\frac{1}{3}$ hours. How many miles did you average per hour?

A. 18

B. $\frac{1}{18}$

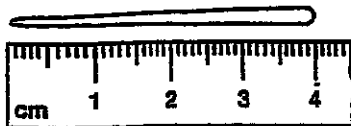
C. $2\frac{17}{32}$

D. none of these

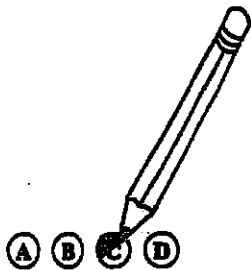
Choose the correct letter.

Sample:

Give the length.

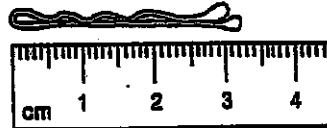


- A. 3 cm
 B. 4 mm
 C. 4 cm
 D. none of these



First decide which answer is correct. Then find the problem number on your answer sheet and darken in the space for the correct answer. In the sample, c is the correct answer.

1. Give the length.



- A. 30 mm
 B. 32 mm
 C. 35 mm
 D. none of these

2. The length of a new pencil is about

- A. 19 m
 B. 19 km
 C. 19 mm
 D. 19 cm

3. $8 \text{ cm} = ? \text{ mm}$

- A. 80
 B. 8
 C. 800
 D. 0.08

4. $750 \text{ m} = ? \text{ km}$

- A. 7.50
 B. 0.750
 C. 75
 D. 7500

5. $16.4 \text{ m} = ? \text{ cm}$

- A. 1.64
 B. 164
 C. 1640
 D. none of these

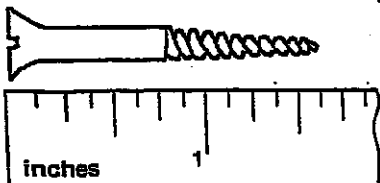
6. $1.5 \text{ L} = ? \text{ mL}$

- A. 15
 B. 150
 C. 1500
 D. none of these

7. $432 \text{ mg} = ? \text{ g}$

- A. 43.2
 B. 4.32
 C. 4320
 D. none of these

8. Give the length.



- A. $1 \frac{1}{2}$ in.
 B. $1 \frac{3}{4}$ in.
 C. $1 \frac{5}{8}$ in.
 D. none of these

9. $9 \text{ ft} = ? \text{ in.}$

- A. 96
 B. 108
 C. 144
 D. none of these

10. $8 \text{ yd } 1 \text{ ft} = ? \text{ ft}$

- A. 72
 B. 33
 C. 25
 D. none of these

Choose the correct letter.

11. $8 \text{ pt} = ? \text{ qt}$

- A. 4
 B. 16
 C. 32
 D. none of these

12. $96 \text{ oz} = ? \text{ lb}$

- A. 8
 B. 12
 C. 3
 D. none of these

13. $2 \text{ T} = ? \text{ lb}$

- A. 1000
 B. 2000
 C. 4000
 D. none of these

14. Add. $\begin{array}{r} 4 \text{ ft } 9 \text{ in.} \\ + 3 \text{ ft } 7 \text{ in.} \\ \hline \end{array}$

- A. 8 ft 4 in.
 B. 7 ft 4 in.
 C. 8 ft 6 in.
 D. none of these

15. Subtract. $\begin{array}{r} 4 \text{ gal} \\ - 1 \text{ gal } 3 \text{ qt} \\ \hline \end{array}$

- A. 3 gal 3 qt
 B. 2 gal 1 qt
 C. 3 gal 1 qt
 D. none of these

16. Write as a fraction in lowest terms.

$15:12 = ?$

- A. $\frac{12}{15}$ B. $\frac{15}{12}$
 C. $\frac{5}{4}$ D. none of these

17. $\frac{6}{8} = ?$

- A. $\frac{4}{5}$
 B. $\frac{2}{3}$
 C. $\frac{7}{9}$
 D. $\frac{9}{12}$

18. Solve. $\frac{n}{6} = \frac{10}{15}$

- A. 4
 B. 9
 C. 25
 D. none of these

19. Solve. $\frac{8}{3} = \frac{5}{n}$

- A. $13\frac{1}{3}$
 B. $4\frac{4}{5}$
 C. $1\frac{7}{8}$
 D. none of these

20. You type 216 words in 6 minutes. At that rate, how many words could you type in 8 minutes?

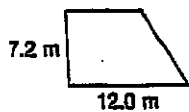
- A. 288
 B. 162
 C. 324
 D. none of these

21. You jog 2.4 miles in 18 minutes. At that rate, how many minutes would it take you to jog 4.0 miles?

- A. 10.8 B. 30
 C. 32 D. none of these

22. The triangles are similar. Find the length of n .

- A. 4 m
 B. 10 m
 C. 9 m
 D. none of these

23. The figures are similar. Find the length n .

- A. 9.6 m
 B. 8.4 m
 C. 7.2 m
 D. none of these

24. A flagpole casts a shadow of 12 meters. At the same time, a 2-meter post casts a shadow of 1 meter. What is the height of the flagpole?

- A. 24 m B. 6 m
 C. 18 m D. none of these

25. A tree is 9.6 meters tall. It casts a 24.0-meter shadow. How tall is a nearby building that casts a 45.0-meter shadow?

- A. 5.12 m B. 12.0 m
 C. 18.0 m D. none of these

THIRD-QUARTER TEST

(Chapters 9 through 12)

Choose the correct letter.

26. $80\% = ?$

- A. $\frac{4}{5}$
- B. $1\frac{1}{4}$
- C. $\frac{3}{5}$
- D. none of these

27. $66\frac{2}{3}\% = ?$

- A. $\frac{1}{3}$
- B. $1\frac{1}{2}$
- C. $\frac{2}{3}$
- D. none of these

28. $\frac{5}{4} = ?$

- A. 80%
- B. 125%
- C. 150%
- D. none of these

29. $\frac{1}{6} = ?$

- A. $12\frac{1}{2}\%$
- B. $18\frac{1}{3}\%$
- C. $33\frac{1}{3}\%$
- D. none of these

30. $3\% = ?$

- A. 0.03
- B. 0.3
- C. 0.003
- D. none of these

31. $15.6\% = ?$

- A. 1.56
- B. 1560
- C. 0.156
- D. none of these

32. $0.4 = ?$

- A. 4%
- B. 40%
- C. 0.04%
- D. none of these

~~33. $1.83\frac{1}{3} = ?$~~

- ~~A. $183\frac{1}{3}\%$~~
- ~~B. $18.3\frac{1}{3}\%$~~
- ~~C. $1.83\frac{1}{3}\%$~~
- ~~D. none of these~~

34. Solve. 15% of $32 = n$

- A. 3.6
- B. 4.2
- C. 5.2
- D. none of these

~~35. Solve. $16\frac{2}{3}\%$ of $72 = n$~~

- ~~A. 12~~
- ~~B. 8~~
- ~~C. 9~~
- ~~D. none of these~~

36. Solve. 75% of $n = 36$


- A. 27
- B. 42
- C. 48
- D. none of these

37. Solve. 12.5% of $n = 24$

- A. 3
- B. 144
- C. 196
- D. none of these

38. The down payment is what percent of the total cost?

\$21 DOWN




TOTAL COST \$84

- A. 20%
- B. 25%
- C. 30%
- D. none of these

39. How much is the down payment?

20% DOWN




TOTAL COST \$1236

- A. \$412.00
- B. \$309.00
- C. \$247.20
- D. none of these

40. What is the total cost?

15% DOWN
\$54 DOWN



- A. \$320
- B. \$360
- C. \$384
- D. none of these

Choose the correct letter.

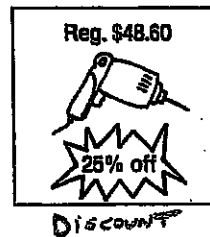
41. A car salesperson is paid a 2% commission on all sales. What would be the commission for selling an \$8460 car?

- A. \$144.60
 B. \$158.80
 C. \$169.20
 D. none of these

42. A factory worker earns \$7.25 per hour for a 40-hour week. \$43 is withheld for federal income tax and \$14.65 for Social Security. How much is his net pay?

- A. \$290
 B. \$232.35
 C. \$233.65
 D. none of these

43. What is the sale price?



- A. \$12.15
 B. \$38.88
 C. \$42.20
 D. none of these

44. Give the unit cost rounded to the nearest cent.

<p>ORANGES 5 pounds for \$1.28</p>
--

- A. 25¢
 B. 26¢
 C. 27¢
 D. none of these

45. You have a coupon that gives you \$1.50 off on one record. What will you have to pay for 2 records that regularly sell for \$5.97 each?

- A. \$10.44
 B. \$8.94
 C. \$11.94
 D. none of these

46. A checking account has a balance of \$492.26. A check of \$49.35 is written and a deposit of \$50 is made. What is the new balance?

- A. \$392.91
 B. \$493.91
 C. \$491.61
 D. none of these

47. On January 31 you have a balance of \$520 in your savings account. On February 1 you are paid \$2.38 interest and make a withdrawal of \$30. What is your new balance?

- A. \$487.65 B. \$492.38
 C. \$547.62 D. none of these

48. Compute the interest.

Principal = \$640
 Rate = 1.5% per month
 Time = 8 months
 $I = P \cdot R \cdot T$

- A. \$9.60
 B. \$6.40
 C. \$76.80
 D. none of these

49. Compute the interest.

Principal = \$1460
 Rate = 12% per year
 Time = 9 months

- A. \$131.40
 B. \$116.80
 C. \$175.20
 D. none of these

50. Your bank card statement shows that you owe the bank \$340. At 1.5% per month, how much will the finance charge be for 1 month?

- A. \$61.20 B. \$10.20
 C. \$5.10 D. none of these

FOURTH-QUARTER TEST

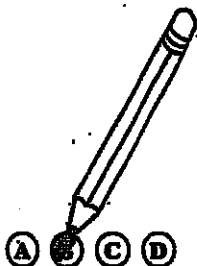
(Chapters 13 through 17)

Choose the correct letter.

Sample:

A right angle measures

- A. 45°
- B. 90°
- C. 180°
- D. none of these



First decide which answer is correct. Then find the problem number on your answer sheet and darken in the space for the correct answer. In the sample, B is the correct answer.

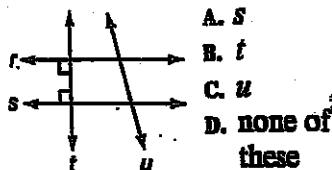
1. An obtuse angle measures between 90° and ? .

- A. 120°
- B. 160°
- C. 180°
- D. none of these

2. Two lines that intersect to form right angles are

- A. acute
- B. parallel
- C. perpendicular
- D. none of these

3. Line r is parallel to line



- A. s
- B. t
- C. u
- D. none of these

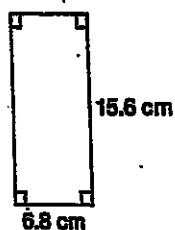
4. A square is also a

- A. triangle
- B. rectangle
- C. trapezoid
- D. none of these

5. A 4-sided figure that has exactly 1 pair of parallel sides is called a

- A. parallelogram
- B. trapezoid
- C. pentagon
- D. hexagon

6. Find the perimeter.



- A. 106.08 cm
- B. 22.4 cm
- C. 38.0 cm
- D. none of these

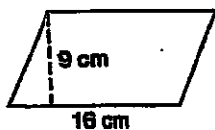
7. Find the circumference.

Use 3.14 as an approximation for π .



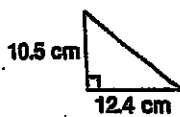
- A. 7.065 m
- B. 15.896 m
- C. 14.175 m
- D. none of these

8. Find the area.



- A. 50 cm^2
- B. 72 cm^2
- C. 144 cm^2
- D. none of these

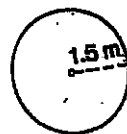
9. Find the area.



- A. 120.4 cm^2
- B. 65.1 cm^2
- C. 130.2 cm^2
- D. none of these

10. Find the area.

$\pi = 3.14$

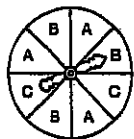
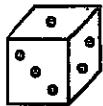


- A. 7.065 m^2
- B. 28.25 m^2
- C. 9.42 m^2
- D. none of these

Choose the correct letter.

26. Think about rolling the die and then spinning the spinner.

$$P(4, B) = ?$$



- A. $\frac{13}{24}$
 B. $\frac{1}{48}$
 C. $\frac{1}{16}$
 D. none of these

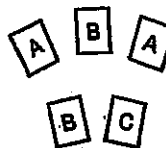
27. Think about rolling the die and spinning the spinner in exercise 26.

$$P(\text{even, not C}) = ?$$

- A. $\frac{9}{24}$
 B. $\frac{1}{8}$
 C. $\frac{1}{4}$

D. none of these

28. Think about picking a card. What are the odds in favor of picking A?



- A. $\frac{2}{5}$
 B. $\frac{2}{3}$
 C. $\frac{3}{5}$

D. none of these

29. Think about picking one of the cards shown in exercise 28. What are the odds against picking C?

- A. $\frac{1}{5}$
 B. $\frac{4}{5}$
 C. $\frac{4}{1}$
 D. none of these

30. You buy a \$1 chance on an \$80 radio. What would your expectation be if 200 chances were sold?

- A. \$1.00
 B. \$.80
 C. \$.40
 D. none of these

31. $+2 < ?$

- A. -3
 B. 0
 C. -6
 D. +6

32. $+3 + -9 = ?$

- A. +12
 B. -12
 C. +6
 D. -6

33. $-7 + +7 = ?$

- A. 0
 B. +14
 C. -14
 D. +7

34. $-2 - -5 = ?$

- A. -7
 B. +7
 C. +3
 D. -3

35. $0 - +6 = ?$

- A. -6
 B. +6
 C. 0
 D. -12

36. $+7 \times -3 = ?$

- A. -28
 B. -21
 C. +21
 D. none of these

37. $-8 \times -4 = ?$

- A. -32
 B. -24
 C. +32
 D. none of these

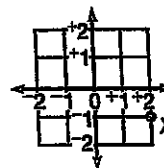
38. $-36 \div +4 = ?$

- A. -9
 B. -8
 C. +9
 D. none of these

39. $-48 \div -12 = ?$

- A. -3
 B. +3
 C. -4
 D. none of these

40. Give the ordered pair for point X.



- A. (-2, +1)
 B. (+1, -2)
 C. (-1, +2)
 D. (+2, -1)

Choose the correct letter.**41.** An expression for 12 less than a number n is

- A. $n + 12$
- B. $12 - n$
- C. $n \div 12$
- D. $n - 12$

42. An expression for 3 times a number n plus 5 is

- A. $5n + 3$
- B. $5n - 3$
- C. $3n + 5$
- D. $3n - 5$

43. Evaluate the expression $a - b$ for $a = -6$ and $b = 3$.

- A. -9
- B. 9
- C. -3
- D. 3

44. Evaluate the expression $3a + 2b$ for $a = -6$ and $b = 3$.

- A. -12
- B. -3
- C. 3
- D. 12

45. Solve. $n + -8 = -3$

- A. -5
- B. 5
- C. 11
- D. -11

46. Solve. $n - 6 = -8$

- A. -14
- B. 14
- C. -2
- D. 2

47. Solve. $5n = -35$

- A. -7
- B. 7
- C. -9
- D. none of these

48. Solve. $\frac{n}{8} = 40$

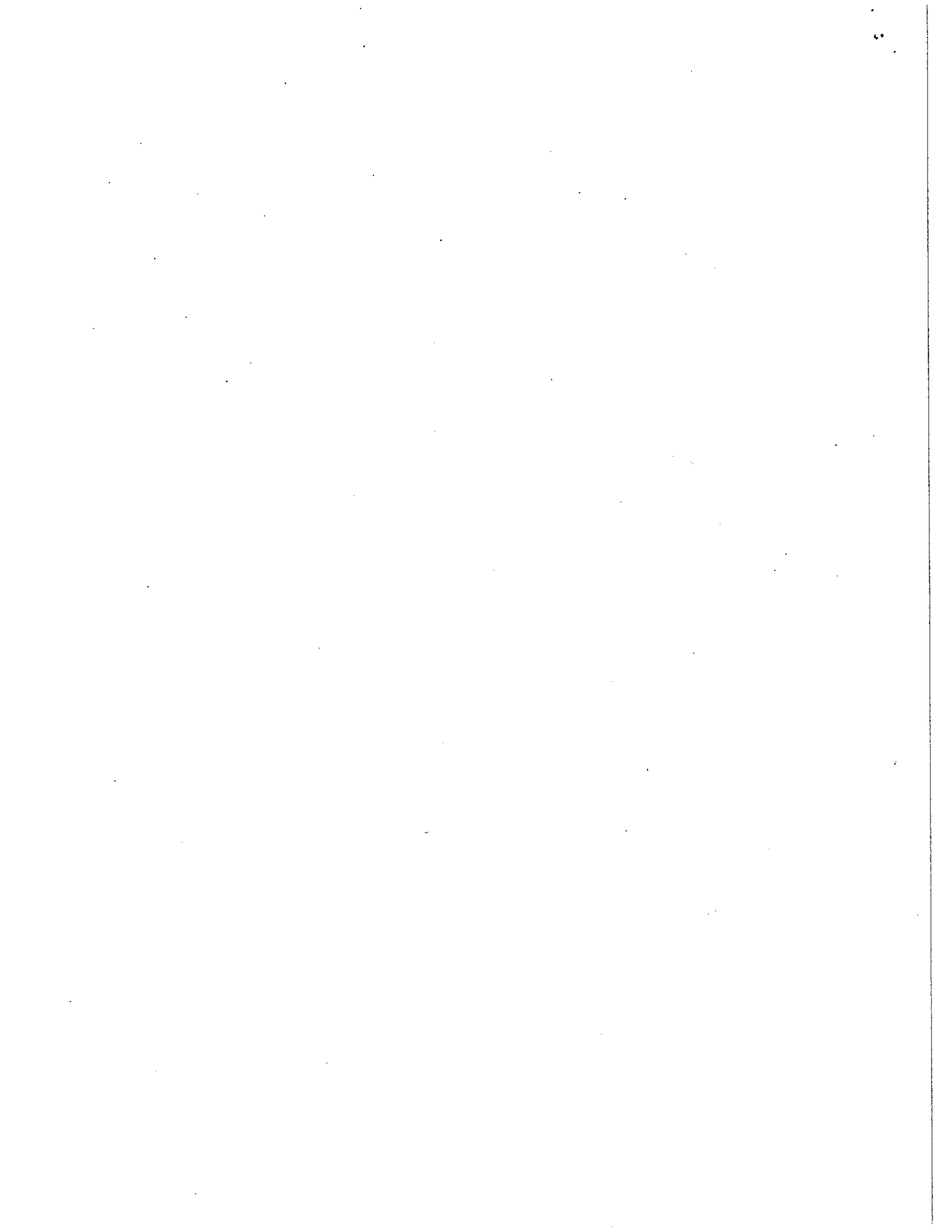
- A. -320
- B. 5
- C. -5
- D. none of these

49. Solve. $3n + 4 = -11$

- A. 5
- B. -5
- C. 4
- D. none of these

50. Solve. $\frac{n}{6} - 3 = 0$

- A. -18
- B. 18
- C. 12
- D. none of these



UNTIL Pg.
marked with
101 on
BOTTOM
*

Chapter 1 Review
Algebra Toolbox

1 Variables and Expressions (pp. 4-7)

Evaluate each expression for the given values of the variables.

- 1. $7(t + 2) + 4$ for $t = 4$ _____
- 2. $13 + (9 - z)$ for $z = 7$ _____
- 3. $2x + (2y - 3)$ for $x = 5$ and $y = 9$ _____
- 4. $5x - 4y$ for $x = 3$ and $y = 2$ _____

2 Writing Algebraic Expressions (pp. 8-12)

Write the algebraic expression for each word phrase.

- 1. 5 less than the sum of a number g and 17 _____
- 2. 6 times a number z , increased by 5 _____

Translate each algebraic expression into words.

- 1. $5(20 - m)$ _____
- 2. $3 - \frac{t}{5}$ _____

3 Solving Equations by Adding or Subtracting (pp. 13-17)

Determine which value of the variable is a solution in each equation.

- 1. $x + 39 = 52$; $x = 7, 13, 27$ _____
- 10. $5 + y = 33$; $y = 14, 28, 29$ _____

Solve each equation and check the solution.

- 1. $w - 13 = 20$ _____
- 12. $26 = h - 8$ _____
- 13. $113 + z = 375$ _____

Write the equation and solve the following question.

- 4. An undefeated basketball team averages 71 points per game while allowing opponents only 54 points per game. What is the team's average margin of victory?

REMEMBER
WHEN SOLVING
TO USE
INVERSE OPERATIONS

CHAPTER **Review****1 Algebra Toolbox (continued)****1-4 Solving Equations by Multiplying or Dividing (pp. 18–22)****Solve.**

15. $7h = 63$ _____ 16. $13y = 143$ _____ 17. $\frac{x}{5} = 20$ _____

18. Tom needs \$240 to buy a new bicycle. If he can save \$16 weekly, in how many weeks can he purchase the bicycle?

19. Denise has worked 4.5 hours on a school project. If she has completed one-sixth of the work, how many hours total will she spend?

1-5 Solving Simple Inequalities (pp. 23–27)**Use < or > to complete each inequality.**

20. $2 + 5 \square 15 - 7$

21. $29 \square 3(5) + 10$

1-6 Combining Like Terms (pp. 28–32)**Combine like terms.**

22. $4a + 7b + 7 + 3a$

23. $2x + 5y + 7x + 13$

Simplify.

24. $6x - 5(x + 8)$

25. $2a - 5b + 3(a + 8)$

Write and solve an equation for the following situation.

26. Julie sold 7 boxes of cookies on Monday, 3 boxes on Tuesday, 11 boxes on Wednesday, and 11 boxes on Friday. If her sales totaled \$176, what was the price of each box?

Review

CHAPTER

1 Algebra Toolbox (continued)

1-7 Ordered Pairs (pp. 34-37)

Determine whether each ordered pair is a solution of $2x + 3 = y$.

27. (3, 9) 28. (14, 33) 29. (7, 17)

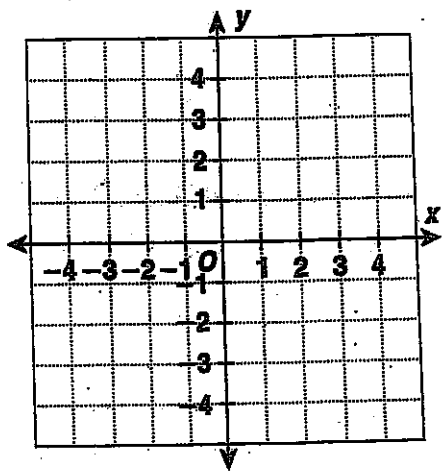
Write and solve an equation for the following situation.

30. Gene is making a rectangular shaped garden that will have a perimeter of 50 feet and a width of 10 feet. How long will the garden need to be?

1-8 Graphing On a Coordinate Plane (pp. 38-41)

Graph each point on the coordinate plane.

31. A(3, 2)
 32. B(-1, 4)
 33. C(5, -3)
 34. D(-2, -3)



1-9 Interpreting Graphs and Tables (pp. 43-47)

35. Create a graph that illustrates the information in the table about the stock price for Apex Plastics.

Date	3/8	3/9	3/10	3/13	3/14
Price	\$63	\$67	\$70	\$62	\$66

PRICE

DATE

LESSON **Review**
2 **Integers and Exponents**

2-1 Adding Integers (pp. 60–63)**Add.**

1. $5 + (-7)$ _____

2. $-10 + (-2)$ _____

3. $-3 + 9$ _____

Evaluate each expression for the given value of the variable.

4. $9 + c$ for $c = -2$

5. $d + (-3)$ for $d = 7$

6. $2 + r + (-3)$ for $r = -5$

7. A small business had an income of \$142,000 and expenses of \$156,000. How much money did the company make or lose?

2-2 Subtracting Integers (pp. 64–67)**Subtract.**

8. $-7 - 4$ _____

9. $5 - (-3)$ _____

10. $-10 - (-3)$ _____

Evaluate each expression for the given value of the variable.

11. $6 - a$ for $a = -8$

12. $-3 - f$ for $f = 2$

13. $m - (-3)$ for $m = 10$

14. A chemist conducted an experiment. He cooled a substance to -15°C and then raised the temperature by 24° . What was the final temperature of the substance?

2-3 Multiplying and Dividing Integers (pp. 68–71)**Multiply or divide.**

15. $3(-7)$ _____

16. $-8(-2)$ _____

17. $-125 \div 5$ _____

Simplify.

18. $4(3 - 7)$ _____

19. $-3(-10 + 2)$ _____

20. $\frac{-5(12)}{-6}$ _____

21. $5(-3 + 8) - (-6)$

22. $-2(-8 \div 4) + (-3)(-5)$

Review

2 **Integers and Exponents (continued)**

1-4 Solving Equations Containing Integers (pp. 74-77)

Solve.

1. $\frac{a}{-3} = 3$

22. $-11 + z = 4$

23. $5b = -15$

4. $-9a = 81$

25. $w + 34 = 21$

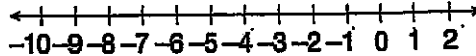
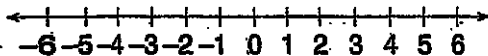
26. $\frac{y}{8} = -9$

1-5 Solving Inequalities Containing Integers (pp. 78-82)

Solve and graph.

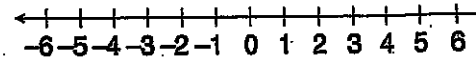
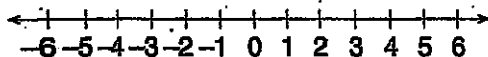
7. $x - 10 \leq -4$ _____

28. $\frac{a}{2} < -3$ _____



19. $5g \geq 25$ _____

30. $w + 12 < 9$ _____



2-6 Exponents (pp. 84-87)

Write in exponential form.

31. $2 \cdot 2 \cdot 2 \cdot 2$

32. $(-n) \cdot (-n) \cdot (-n)$

33. $a \cdot a \cdot a \cdot a \cdot a \cdot a$

Evaluate.

34. 3^4 _____

35. $(-2)^3$ _____

36. 5^6 _____

Simplify.

37. $(2 - 3)^3$

38. $12 + (-3 - (-1)^6)$

39. $(5 \cdot 3)^2 + 2 + (-3)^3$

LESSON 2 **Review**
Integers and Exponents (continued)

2-7 Properties of Exponents (pp. 88-91) *USE EXPONENT RULES*
 Multiply. Write the product as one power. *-DO NOT NEED TO SOLVE/EVALUATE*

40. $g^5 \cdot g^5 \cdot g^5$ 41. $3^4 \cdot 3^2 \cdot 3^3 \cdot 3^0$ 42. $23^4 \cdot 23^3$

Divide. Write the product as one power. *-DO NOT NEED TO SOLVE/EVALUATE*

43. $\frac{a^9}{a^4}$ 44. $\frac{5^7}{5^1}$ 45. $\frac{y^9}{y^2}$

2-8 Look for Patterns in Integer Exponents (pp. 92-95)
Simplify

46. $\frac{x^5 \cdot y^3 \cdot x}{y^2 \cdot x^2}$ 47. $\frac{x^4 \cdot x^5 \cdot y}{x^2 \cdot y^2}$ 48. $\frac{2^5 \cdot 2^4}{2^7}$

Evaluate.

49. $10^{-3} \cdot 10^9$ 50. $9^4 \cdot 9^{-6}$ 51. $\frac{5^2}{5^5}$

2-9 Scientific Notation (pp. 96-99)
 Write each number in standard notation.

52. 1.21×10^6 53. 2.49×10^{-3} 54. 3.24×10^{-2}

Write each number in scientific notation.

55. 0.000159 _____ 56. 2,100,000 _____

~~57. A computer can perform an algorithm in $3.2 \cdot 10^{-10}$ seconds. How long will this computer need to perform one million of the algorithms?~~

Review**Rational and Real Numbers****3-1 Rational Numbers** (pp. 112–115)

Write each decimal as a fraction in simplest form.

1. 0.34 _____

2. -1.578 _____

3. -0.9 _____

Write each fraction as a decimal.

4. $\frac{25}{10}$ _____

5. $\frac{15}{81}$ _____

6. $-\frac{30}{125}$ _____

7. $-\frac{8}{15}$ _____

8. $\frac{7}{11}$ _____

9. $\frac{75}{20}$ _____

3-2 Adding and Subtracting Rational Numbers (pp. 117–120)

Add or subtract.

10. $\frac{9}{25} + \left(-\frac{17}{25}\right)$

11. $0.38 + (-1.2)$

12. $-3.15 + (-2.25)$

13. $\frac{14}{16} + \left(-\frac{8}{16}\right)$

14. $2.15 + (-1.06)$

15. $-4.25 + (-8.16)$

Evaluate each expression for the given value of the variable.

16. $0.6 - m$ for $m = 0.8$

17. $3 - n$ for $n = -\frac{1}{5}$

18. $a + \frac{1}{12}$ for $a = -\frac{5}{12}$

19. $2.4 + b$ for $b = 1.2$

20. $\frac{1}{4} - f$ for $f = \frac{1}{12}$

21. $4 + (-h)$ for $h = -\frac{4}{9}$

3-3 Multiplying Rational Numbers (pp. 121–125)

Multiply. Write each answer in simplest form.

22. $\frac{2}{5} \left(-\frac{5}{9}\right)$ _____

23. $-1\frac{3}{4} \left(-\frac{11}{12}\right)$ _____

24. $9 \left(1\frac{8}{15}\right)$ _____

25. $1.23(2.3)$ _____

26. $-0.01(28.7)$ _____

27. $-0.9(-5.7)$ _____

CHAPTER **Review****3** **Rational and Real Numbers (continued)**Evaluate $2\frac{2}{9}y$ for each value of y .*USE - IMPROPER FRACTIONS*

28. $y = 3$ _____

29. $y = \frac{1}{9}$ _____

30. $y = \frac{9}{14}$ _____

31. $y = \frac{9}{2}$ _____

32. $y = \frac{3}{5}$ _____

33. $y = \frac{27}{7}$ _____

3-4 Dividing Rational Numbers (pp. 126-130) *Remember TO FLIP*

Divide. Write each answer in simplest form.

34. $\frac{3}{4} \div \frac{1}{7}$ _____

35. $2\frac{2}{5} \div 5$ _____

36. $2\frac{5}{6} \div 2\frac{5}{8}$ _____

37. $1\frac{5}{8} \div \frac{1}{3}$ _____

38. $5\frac{1}{6} \div 2\frac{1}{3}$ _____

39. $3\frac{2}{5} \div \frac{4}{15}$ _____

3-5 Adding and Subtracting with Unlike Denominators (pp. 131-134)Evaluate each expression for the given value of the variable. *USE COMMON DENOMINATORS*

40. $\frac{7}{9} + x$ for $x = \frac{1}{4}$

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

42. $1\frac{2}{3} + n$ for $n = \frac{1}{15}$

43. $\frac{8}{9} + w$ for $w = \frac{1}{8}$

44. $\frac{2}{3} - w$ for $w = 1\frac{3}{8}$

45. $g - \frac{5}{12}$ for $g = 1\frac{1}{5}$

3-6 Algebra: Solving Equations with Rational Numbers (pp. 136-139)Solve. *USE INVERSE*

46. $m - 3.2 = -0.8$

47. $\frac{1}{5}m = -\frac{2}{5}$

48. $2.5h = 0.5$

49. $h + 1.5 = 6.4$

50. $3w = \frac{1}{9}$

51. Crystal spent \$15.02 on ice cream and juice for her party. If the juice cost \$5.86, how much was the ice cream?

CHAPTER 7 **Review**
Ratios and Similarity

7-1 Ratios and Proportions (pp. 342–345)

Simplify to tell whether the ratios form a proportion.

1. $\frac{12}{36}$ and $\frac{1}{3}$ 2. $\frac{3}{4}$ and $\frac{27}{36}$ 3. $\frac{110}{220}$ and $\frac{1}{2}$ 4. $\frac{30}{36}$ and $\frac{1}{5}$

5. There are three kinds of flowers at the flower store. The ratio of tulips to roses to daffodils is 7:8. If there are a total of 80 flowers in the store, then how many of each flower must there be?

7-2 Ratios, Rates, and Unit Rates (pp. 346–349)

Find each unit price and tell which is the better buy.

6. a can of peas at \$0.56 for 14 oz; a can of peas at \$0.99 for 31 oz 7. 2-pound spaghetti sauce for \$1.89; 3 pound spaghetti sauce for \$2.29

7-3 Analyze Units (pp. 350–354)

Find the appropriate factor for each conversion.

8. cups to quarts 9. millimeters to meters 10. ounces to pounds

Use conversion factors to find the amount specified.

11. ^{How many} miles biked in 1 hour at an average rate of 17.6 feet per second _____

7-4 Solving Proportions (pp. 356–360) *CROSS-MULTIPLY*

Solve each proportion.

12. $\frac{18}{4} = \frac{45}{a}$ 13. $\frac{8}{9} = \frac{32}{c}$ 14. $\frac{7.1}{2} = \frac{f}{11}$ 15. $\frac{2.5}{100} = \frac{b}{20}$

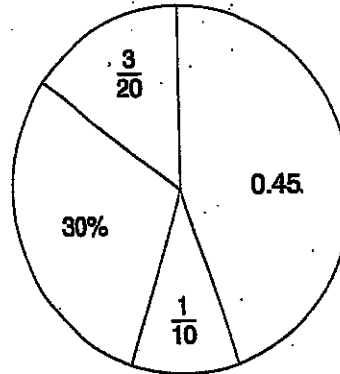
16. $\frac{1.2}{4} = \frac{2.7}{a}$ 17. $\frac{1}{7} = \frac{r}{0.7}$ 18. $\frac{16}{12} = \frac{x}{18}$ 19. $\frac{d}{3} = \frac{10}{6}$

CHAPTER 8 **Review**
Percents

8-1 Relating Decimals, Fractions, and Percents (pp. 400-403)

Find the equivalent values missing from the table for each value given on the circle graph.

	Fraction	Decimal	Percent
1.	$\frac{9}{20}$	0.45	
2.	$\frac{1}{10}$		
3.	$\frac{3}{10}$		30%
4.	$\frac{3}{20}$		



8-2 Finding Percents (pp. 405-408)

Find each number or percent.

5. What number is 38% of 55?

6. 75 is what percent of 1500?

7. Huber Printing has budgeted \$2040 per month for advertising. If the monthly operating budget is \$34,000, what percent is budgeted for advertising?

8. Research has shown that at 10 years of age, a girl has reached 84% of her adult height. As an adult, Gwen is 62 inches tall. If research is correct, then to the nearest tenth of an inch, how tall would she have been at age 10?

8-3 Finding a Number When the Percent is Known (pp. 410-414)

Find each number.

9. 48 is 30% of what number?

10. 325% of what number is 1430?

11. A lot has trees covering 30% of the area. If the trees cover 8166.7 ft², what is the total lot area to the nearest whole square foot.

12. Darryl sold a 1956 baseball card of Mickey Mantle for \$1250. This was 160% of what he paid for it 10 years ago. To the nearest dollar, what did Darryl pay for the card?
