

Simplify each ratio to lowest terms. Improper fractions are not changed to mixed numbers.

1. 24:27 A. 4:3
 B. 8:9
 C. 9:8
 D. 3:4
2. 150:25 A. 4:1
 B. 1:4
 C. 1:6
 D. 6:1
3. $\frac{16}{24}$ A. $\frac{2}{3}$
 B. $\frac{3}{2}$
 C. $\frac{4}{3}$
 D. $\frac{3}{4}$
4. $\frac{28}{14}$ A. $\frac{2}{1}$
 B. $\frac{7}{4}$
 C. $\frac{4}{7}$
 D. $\frac{1}{2}$
5. 5 to 1000 A. 200 to 1
 B. 1 to 2000
 C. 1 to 200
 D. 2000 to 1

6. George drove 110 miles on 22 gallons of gas. What is the ratio of distance to gallons of gas used?
- A. 4:1 B. 1:5.
C. 5:1 D. 1:4
7. Mortar is mixed in a ratio of 1 part cement to 3 parts sand. If a bag of cement weighs 8.5 lbs., how many lbs. of sand should be used?
- A. 255 B. 35.5
C. 25.5 D. 355
8. If a manually operated winch has a gear ratio of 32:1, that means that 32 turns of the crank will produce 1 turn of the large gear. How many manual turns are necessary to produce 3 turns of the large gear?
- A. $10\frac{2}{3}$ B. 106
C. 96 D. 12
9. If every turn of the large gear (problem 8) reels in 2 feet of cable, how many manual turns of the crank are necessary to reel in 12 feet of cable?
- A. 6 B. 192
C. 32 D. 182
10. A health clinic treated 4,976 patients last year. They gave 622 flu shot during that same year. What is the ratio of flu shots to Patients?
- A. 8:1 B. 1:8
C. 6:1 D. 1:6

Find the missing term in each proportion.

11. $\frac{n}{8} = \frac{9}{12}$

A. 72

B. $13\frac{1}{2}$

C. 6

D. $10\frac{2}{3}$

12. $\frac{3}{11} = \frac{6}{x}$

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

B. 11

C. 66

D. 22

13. $3:5 = p:10$

A. 50

B. 6

C. 30

D. $16\frac{2}{3}$

14. $30:a = 8:16$

A. 240

B. 6

C. 60

D. 24

15. $3\frac{3}{4}:x = 5:4$

A. 13

B. 3

C. 1

D. 15

16. 300 people in Florida took the GED test one month. For every 6 people who took the test, 4 people passed. How many people passed?

A. 200

B. 2000

C. 45

D. 450

17. A snapshot with a width of 5" and a length of 8" is to be enlarged to a length of 12". What will the width be then?

A. 7.5"

B. 19.2"

C. 6"

D. 20"

18. If a pump discharges 240 gallons of water in 4.5 minutes. How long will it take to discharge 320 gallons?

A. 5 minutes

B. 7 minutes

C. 4 minutes

D. 6 minutes

19. If 12 men can complete a job in 288 hours, how long will it take 9 men to do the same work?

A. 210 hours

B. 375 hours

C. 390 hours

D. 216 hours

20. On a blueprint where the scale is $\frac{1}{16}$ " = 2 feet, what is the actual length of a lot which is 5" on the drawing?

A. 220 feet

B. 160 feet

C. 150 feet

D. 180 feet

Answer Key

1. B
2. D
3. A
4. A
5. C
6. C
7. C
8. C
9. B
10. B
11. C
12. D
13. B
14. C
15. B
16. A
17. A
18. D
19. D
20. B