

FRACTIONS/RATIOS

This assessment has 40 questions similar to this sampling.

CALCULATORS

Calculators may be used.

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Reduce the following ratios to simplest terms. Write your answer as a ratio.

1. 8:60
2. 3:75
3. 280:400
4. 279:324

Write the following fractions or ratios as a percent.

- | | |
|------------------|--------------------|
| 5. 65:500 | 8. $\frac{23}{20}$ |
| 6. 1:4 | 9. 7.5:100 |
| 7. $\frac{4}{5}$ | 10. 0.3:10 |

Determine which ratio has the greatest value.

- | | | | |
|-------------|---------|----------|----------|
| 11. A. 5:8 | B. 7:12 | C. 15:26 | D. 11:19 |
| 12. A. 2:11 | B. 7:40 | C. 3:16 | D. 5:27 |
| 13. A. 1:9 | B. 1:5 | C. 1:20 | D. 1:12 |

Write the following percents as fractions. Reduce your answers to simplest terms.

14. 48%
15. 29%
16. 60%

Write the following percents as ratios. Reduce your answers to simplest terms.

17. 85%
18. 12%
19. 37.5%

Solve the following proportions for X. For answers which are not whole numbers, write the answer in decimal format.

20. 25 mg : 2 ml = X mg : 5 ml
21. $\frac{4.8 \text{ mg}}{1 \text{ ml}} = \frac{12 \text{ mg}}{X \text{ ml}}$
22. 2 ml : 0.7 mg = 8 ml : X mg

Solve the following:

23. A drug's strength is 3 mg per 2 ml. How many ml will you need to administer 7.5 mg?
24. A supplement contains 9,000 HDU per 4.20 mg. How many HDU are contained in 7 mg?
25. You have received an order to administer 45 mg of a drug. The available drug has a strength of 20 mg per ml. How many ml will you need?

FRACTIONS/RATIOS ANSWER KEY

1. 2:15
2. 1:25
3. 7:10
4. 31:36
5. 13%
6. 25%
7. 80%
8. 115%
9. 7.5%
10. 3%
11. A
12. C
13. B
14. 12/25
15. 29/100
16. 3/5
17. 17:20
18. 3:25
19. 3:8
20. 62.5
21. 2.5
22. 2.8
23. 5
24. 15,000
25. 2.25