

# Prealgebra

## Fractions Practice Test

Print Name: \_\_\_\_\_

Each problem is 5 pts. Neatness counts for 5 points.



1) A car travels 546 miles on  $18\frac{2}{10}$  gallons. How many miles per gallon did it get? (10 points)

2) Scientists say we should sleep  $\frac{3}{8}$  of a day. How many hours a day is this?



3) There are 25 candies in a bag,  $\frac{3}{5}$  of them are chocolate. How many candies are NOT chocolate?

Use  $<$  or  $>$  for  $[\ ]$  to form a true statement.

4)

$$\frac{4}{5} [\ ] \frac{2}{9}$$

5)

$$-\frac{1}{3} [\ ] -\frac{2}{5}$$

6)

$$\frac{1}{6} [\ ] \frac{5}{3}$$

7)

$$-\frac{3}{8} [\ ] -\frac{6}{7}$$

Calculate and, if possible, simplify.

8)

$$2\frac{1}{5} \div \frac{3}{10} =$$

9)

$$21 - 6\frac{5}{8} =$$

10)

$$\frac{4}{7} - \frac{2}{5} =$$

11)

$$\frac{6}{8} + 1\frac{3}{7} =$$

12)

$$\frac{8}{9} \div \frac{5}{7} =$$

13)

$$3\frac{3}{4} \cdot \frac{5}{7} =$$

14)

$$\frac{8}{9} - \frac{2}{3} =$$

15)

$$2\frac{5}{7} + \frac{6}{7} =$$

Convert the Improper Fraction into a Mixed Number

16)

$$\frac{23}{7} =$$

17)

$$\frac{38}{7} =$$

Convert the Mixed Number into a Improper Fraction

18)  $3\frac{5}{9} =$

19)  $8\frac{2}{3} =$

Simplify.

20)  $\frac{0}{5} =$

22)  $\frac{7}{0} =$

21)  $\frac{15}{15} =$

23)  $\frac{78}{1} =$

Classify each as prime, composite, or neither.

24) 1

25) 56

26) 11

Find the prime factorization of each number.

27) 70

28) 125

Which of the following numbers are divisible by 3? Show how each is or is not other than using your calculator. 36, 71, 207, 124

*\*\*On the test, you maybe asked about divisibility of 2, 5, 6, or 10.\*\**