Name: _____ Date: _____

Fresh Math

Equivalent Fractions by Multiplying - Medium

Multiply the numerator and the denominator by the same number. Find the missing number.

1. $\frac{1}{4} = \frac{?}{20}$

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

3. $\frac{1}{4} = \frac{6}{?}$

4. $\frac{3}{4} = \frac{18}{?}$

5. $\frac{9}{10} = \frac{27}{?}$

6. $\frac{1}{2} = \frac{?}{12}$

Write two fractions equivalent to each fraction by multiplying. (Answers will vary.)

7. $\frac{1}{4}$

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

9. $\frac{1}{6}$

10. $\frac{2}{5}$

Name: _____ Date: _____

Fresh Math

Equivalent Fractions by Multiplying - Medium

Write two fractions equivalent to each fraction by multiplying. (Answers will vary.)

11. $\frac{3}{8}$

12. $\frac{7}{12}$

Are the fractions equivalent? Explain using multiplication.

13. $\frac{2}{3}$, $\frac{8}{12}$

14. $\frac{1}{3}$, $\frac{5}{15}$

15. $\frac{1}{12}$, $\frac{4}{48}$

16. $\frac{1}{2}$, $\frac{1}{4}$

17. $\frac{7}{10}$, $\frac{22}{30}$

18. $\frac{4}{5}$, $\frac{20}{25}$

19. $\frac{1}{4}$, $\frac{6}{20}$

20. $\frac{5}{6}$, $\frac{15}{18}$

Equivalent Fractions by Multiplying - Medium - Answer Key

1. $\frac{1}{4} = \frac{?}{20}$

   5 (multiply by 5)

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

   8 (multiply by 2)

3. $\frac{1}{4} = \frac{6}{?}$

   24 (multiply by 6)

4. $\frac{3}{4} = \frac{18}{?}$

   24 (multiply by 6)

5. $\frac{9}{10} = \frac{27}{?}$

   30 (multiply by 3)

6. $\frac{1}{2} = \frac{?}{12}$

   6 (multiply by 6)

7. $\frac{1}{4}$

   $\frac{2}{8}, \frac{4}{16}$

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

   $\frac{6}{9}, \frac{8}{12}$

9. $\frac{1}{6}$

   $\frac{4}{24}, \frac{5}{30}$

10. $\frac{2}{5}$

    $\frac{8}{20}, \frac{10}{25}$

Equivalent Fractions by Multiplying - Medium - Answer Key

11. $\frac{3}{8}$

$\frac{6}{16}, \frac{15}{40}$

12. $\frac{7}{12}$

$\frac{28}{48}, \frac{35}{60}$

13. $\frac{2}{3}, \frac{8}{12}$

Yes: 2 × 4 = 8 and 3 × 4 = 12

14. $\frac{1}{3}, \frac{5}{15}$

Yes: 1 × 5 = 5 and 3 × 5 = 15

15. $\frac{1}{12}, \frac{4}{48}$

Yes: 1 × 4 = 4 and 12 × 4 = 48

16. $\frac{1}{2}, \frac{1}{4}$

No: 2 × 2 = 4, but 1 × 2 = 2, not 1

17. $\frac{7}{10}, \frac{22}{30}$

No: 10 × 3 = 30, but 7 × 3 = 21, not 22

18. $\frac{4}{5}, \frac{20}{25}$

Yes: 4 × 5 = 20 and 5 × 5 = 25

19. $\frac{1}{4}, \frac{6}{20}$

No: 4 × 5 = 20, but 1 × 5 = 5, not 6

20. $\frac{5}{6}, \frac{15}{18}$

Yes: 5 × 3 = 15 and 6 × 3 = 18