Fractions and decimals Worksheet

Elementary Math

Name _____ Date _____

Warm-up

1. A bar is cut into 8 equal parts, and 7 are shaded. What fraction is shaded?
   (A) $\frac{1}{8}$ (B) $\frac{7}{8}$ (C) $\frac{7}{15}$ (D) $\frac{8}{7}$

2. Simplify $\frac{10}{14}$.

3. $\frac{4}{11} + \frac{4}{11}$

4. $9.2 + 7.4$

5. Fill the blank: $\frac{4}{5} = \frac{\square}{10}$

Practice

6. A class has 20 students, and $\frac{4}{5}$ of them play soccer. How many play soccer?

7. Which fraction is equal to $\frac{2}{9}$?
   (A) $\frac{10}{45}$ (B) $\frac{7}{14}$ (C) $\frac{9}{2}$ (D) $\frac{10}{46}$

8. $\frac{1}{2} + \frac{1}{3}$

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9. Which is greater?
   (A) 0.22 (B) 0.3

10. Which is greater?
    (A) $\frac{1}{3}$ (B) $\frac{1}{9}$

11. Which is greater?
    (A) $\frac{5}{10}$ (B) $\frac{2}{5}$

12. You walked $\frac{3}{4}$ of a mile and then $\frac{4}{8}$ of a mile. How far did you walk, in miles?

13. $7.4 - 0.18$

Challenge

14. $\frac{2}{7}$ of a number is 18. What's the number?

15. Find a number between $\frac{3}{8}$ and $\frac{4}{8}$. Write it with denominator 16. What's the top?

16. $\frac{4}{9}$ plus what equals 1?

17. Notebooks cost \$34.50. How much do 6 cost?

18. $\frac{2}{7}$ of a class is 6 students. If the class has 21 students, what's the missing number?

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Fractions and decimals Worksheet: Answer Key

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1. (B) $\frac{7}{8}$

   The bottom counts all the parts, and the top counts the shaded ones.

2. $\frac{5}{7}$

   Divide both by 2.

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

   Same denominator. Add the tops only.

4. 16.6

   Line up the points and add the tenths and then the ones.

5. 8

   The bottom was multiplied by 2, so the top must be too.

6. 16

   One 5th of 20 is 4. Take 4 of those.

7. (A) $\frac{10}{45}$

   Top and bottom were both multiplied by 5.

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

   Use 6 as the common denominator, or anything that both go into.

9. (B) 0.3

   Write them with the same places: 0.30 against 0.22.

10. (A) $\frac{1}{3}$

    With the same top, the smaller bottom means bigger pieces.

11. (A) $\frac{5}{10}$

    Write $\frac{2}{5}$ as $\frac{4}{10}$. Then compare tops.

12. $\frac{5}{4}$

    Write fourths as eighths first: $\frac{6}{8} + \frac{4}{8}$.

13. 7.22

    Line up the points. Add a 0 if you need to hold a place.

14. 63

    2 parts are 18, so one part is 9, and 7 parts make the whole.

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15. 7

    Double both fractions so there's room between them: $\frac{6}{16}$ and $\frac{8}{16}$.

16. $\frac{5}{9}$

    One whole is $\frac{9}{9}$, so the missing part is $\frac{5}{9}$.

17. 207

    Multiply as if there were no point, then put back two decimal places.

18. 6

    Equivalent fractions: multiply top and bottom by 3 to reach 21.

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