

Name: Key

Algebra 1 Plus Test REVIEW- Fractions

Follow the directions given for each section. Remember, it is important that you show ALL of your work so that you are eligible for partial credit if your final answer is incorrect. Please simplify all of your final answers if they are actions! Circle or draw a box around your final answer.

Simplify the following fractions as much as possible. Circle your final answer.

1. $\frac{12}{30} = \frac{2}{5}$

2. $\frac{25}{55} = \frac{5}{11}$

3. $\frac{15}{27} = \frac{5}{9}$

4. $\frac{21}{35} = \frac{3}{5}$

★ Fill in the blanks of the equal fractions appropriately. *no need to simplify*

5. $\frac{2}{3} = \frac{16}{24}$

6. $\frac{1}{5} = \frac{4}{20}$

7. $\frac{4}{7} = \frac{12}{21}$

Multiply the following fractions. PLEASE MAKE SURE YOUR ANSWER IS SIMPLIFIED AS MUCH AS POSSIBLE! Circle your final answer.

8. $\frac{2}{7} \cdot \frac{4}{5} = \frac{8}{35}$

9. $\frac{3}{8} \cdot \frac{1}{3} = \frac{1}{8}$

10. $\frac{2}{5} \cdot \frac{4}{5} = \frac{8}{25}$

11. $\frac{3}{6} \cdot \frac{1}{3} = \frac{1}{6}$

12. $\frac{1}{10} \cdot \frac{9}{1} = \frac{9}{10}$

13. $\frac{3}{10} \cdot \frac{2}{5} = \frac{3}{25}$

Divide the following fractions. PLEASE MAKE SURE YOUR ANSWER IS SIMPLIFIED AS MUCH AS POSSIBLE! Circle your final answer.

14. $\frac{4}{1} \div \frac{3}{8} =$

$\frac{4}{1} \cdot \frac{8}{3} = \frac{32}{3} \text{ or } 10\frac{2}{3}$

15. $\frac{6}{7} \div \frac{3}{2} =$

$\frac{6}{7} \cdot \frac{2}{3} = \frac{12}{21} = \frac{4}{7}$

$$16. \frac{3}{6} \div \frac{1}{3} =$$

$$\frac{3}{6} \cdot \frac{3}{1} = \frac{9}{6} = \frac{3}{2} \text{ or } 1\frac{1}{2}$$

$$17. \frac{3}{11} \div \frac{3}{2} =$$

$$= \frac{3}{11} \cdot \frac{2}{3} = \frac{6}{33} = \frac{2}{11}$$

$$18. \frac{3}{5} \div \frac{6}{2} =$$

$$\frac{3}{5} \cdot \frac{2}{6} = \frac{6}{30} = \frac{1}{5}$$

$$19. \frac{2}{5} \div \frac{5}{1} =$$

$$\frac{2}{5} \cdot \frac{1}{5} = \frac{2}{25}$$

Add or subtract the fractions. PLEASE MAKE SURE YOUR ANSWER IS SIMPLIFIED AS MUCH AS POSSIBLE! Circle your final answer.

$$20. \frac{3}{7} + \frac{1}{2} = \frac{6}{14} + \frac{7}{14} = \frac{13}{14}$$

7: 7, 14, 21, 28, ...
2: 2, 4, 6, 8, 10, 12, 14

$$21. \frac{3}{5} - \frac{2}{6} = \frac{18}{30} - \frac{10}{30} = \frac{8}{30} = \frac{4}{15}$$

5: 5, 10, 15, 20, 25, 30, 35, 40
6: 6, 12, 18, 24, 30

$$22. \frac{8}{9} - \frac{5}{6} = \frac{16}{18} - \frac{15}{18} = \frac{1}{18}$$

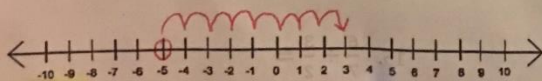
9: 9, 18, 27, 36, ...
6: 6, 12, 18

$$23. \frac{2}{3} + \frac{1}{8} = \frac{16}{24} + \frac{3}{24} = \frac{19}{24}$$

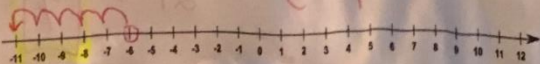
3: 3, 6, 9, 12, 15, 18, 21, 24, 27, ...
8: 8, 16, 24

Add or subtract the integers. You may use the number line provided, if needed (it is not a requirement). Please circle your answers.

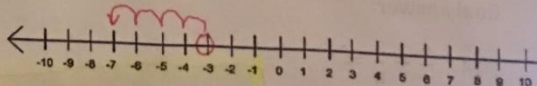
$$24. (-5) + 8 = 3$$



$$26. (-6) - 5 = -6 + (-5) = -11$$



$$25. (-3) + (-4) = -7$$



$$27. 12 - (-3) = 12 + 3 = 15$$

