

Math 7 Chapter 4 Practice Test

Show your work. Use your spiral if you need more work space. (Be sure to label the page in your spiral.)

<p>1. What is $\frac{3}{50}$ as a decimal? A. 6.0 B. $0.\bar{6}$ C. 0.6 D. 0.06</p> <p><i>Handwritten: $\frac{3}{50} = \frac{6}{100} = 0.06$</i></p>	
<p>2. What is $1\frac{5}{9}$ as a decimal? A. 0.15 B. $1.\bar{5}$ C. 1.5 D. 15.6</p> <p><i>Handwritten: $\frac{5}{9} = 0.\bar{5}$</i></p>	
<p>3. What is 0.42 as a fraction in simplest form?</p> <p><i>Handwritten: $\frac{42}{100} \div \frac{2}{2} = \frac{21}{50}$</i></p>	
<p>4. Which symbol makes $\frac{6}{11} > \frac{2}{5}$ a true sentence? A. > B. < C. = D. +</p> <p>② CONVERT TO DECIMALS</p> <p><i>Handwritten: $\frac{6}{11} \cdot \frac{5}{5} = \frac{30}{55}$ $\frac{2}{5} \cdot \frac{11}{11} = \frac{22}{55}$</i></p>	<p>③ $\frac{6}{11} > \frac{2}{5}$</p>
<p>5. Which of the following has the least value? A. $\frac{13}{20} = \frac{26}{40}$ B. $\frac{7}{8} = \frac{35}{40}$ C. $\frac{3}{4} = \frac{30}{40}$ D. $\frac{3}{5} = \frac{24}{40}$</p>	
<p>6. A recipe calls for $\frac{1}{6}$ teaspoon of vanilla extract. If the recipe is doubled, how much vanilla extract is needed?</p> <p><i>Handwritten: $\frac{1}{6} \text{ TSP} + \frac{1}{6} \text{ TSP} = \frac{2}{6} = \frac{1}{3} \text{ TSP}$</i></p>	
<p>7. Jeremy and his friends ate $\frac{7}{8}$ of a pie. If the pie was cut into sixteen pieces, how much pie is left over?</p> <p><i>Handwritten: $1 - \frac{7}{8} = \frac{8}{8} - \frac{7}{8} = \frac{1}{8}$</i></p> <p>$\frac{1}{8}$ OF THE PIE LEFT</p>	
<p>8. A recipe calls for $5\frac{3}{8}$ cups of milk. If the recipe is tripled, how much milk is needed?</p> <p><i>Handwritten: $5\frac{3}{8} \times 3 = (5 \times 3) + (\frac{3}{8} \times 3) = 15 + \frac{9}{8} = 15\frac{9}{8} = 16\frac{1}{8}$</i></p>	<p>$16\frac{1}{8}$ CUPS OF MILK</p>
<p>9. Ayana bought a container of peanuts. She gave $\frac{1}{4}$ of it to one sister, $\frac{1}{3}$ to another sister, and she kept the rest for herself. What fraction did she keep?</p> <p><i>Handwritten: $\frac{1}{4} + \frac{1}{3} + \square = 1$ $\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$ $\frac{12}{12} - \frac{7}{12} = \frac{5}{12}$</i></p> <p>SHE KEPT $\frac{5}{12}$ OF THE PEANUTS</p>	
<p>10. A restaurant had 3 pies, each cut into eighths. By noon, $\frac{1}{2}$ of all the pieces were sold. How many pieces of pie were sold by noon?</p> <p><i>Handwritten: $3 \text{ GROUPS OF } \frac{8}{8} = \frac{24}{8} \leftarrow \text{ALL 3 PIES}$ $\frac{24}{8} \div 2 = 12$ $\frac{24}{8} \times \frac{1}{2}$</i></p> <p>12 PIECES SOLD BY NOON</p>	

11. The Davis family traveled 20 miles in $\frac{1}{2}$ hour. If it is currently 2:00 P.M. and the family's destination is 240 miles away, at what time will they arrive? Explain how you solved the problem.

20 MILES IN $\frac{1}{2}$ HR
40 MILES PER HOUR

$$\frac{240 \text{ MILES}}{40 \text{ MPH}} = 6 \text{ HOURS}$$

$$2:00 \text{ PM} + 6 \text{ HOURS} = 8:00 \text{ PM}$$

12. $\frac{4}{7} - \frac{2}{7} = \frac{4-2}{7} = \frac{2}{7}$

13. $\frac{4}{5} + \frac{1}{5} = \frac{4+1}{5} = \frac{5}{5} = 1$

14. Add $\frac{1}{2} + \frac{1}{4} + \frac{1}{6}$ Use this model if it helps $\Rightarrow \frac{1}{2} + \frac{1}{4} + \frac{1}{6} = \frac{6}{12} + \frac{3}{12} + \frac{2}{12} = \frac{6+3+2}{12} = \frac{11}{12}$

15. $4\frac{3}{4} = 4+5 = 9$
 $+ 5\frac{2}{4} = \frac{3}{4} + \frac{2}{4} = \frac{3+2}{4} = \frac{5}{4} = 1\frac{1}{4}$
 $\rightarrow 9 + 1\frac{1}{4} = 10\frac{1}{4}$

16. $7\frac{5}{6} = 7\frac{10}{12}$
 $+ 2\frac{1}{4} = 2\frac{3}{12}$
 $7+2 = 9$
 $\frac{10}{12} + \frac{3}{12} = \frac{13}{12} = 1\frac{1}{12}$
 $\rightarrow 9 + 1\frac{1}{12} = 10\frac{1}{12}$

17. $5 - 3\frac{1}{3} =$
 $3\frac{1}{3} = 3 + \frac{1}{3}$
 $5 - 3 = 2$
 $2 - \frac{1}{3} = 1\frac{2}{3}$

18. $\frac{1}{2} \times 5\frac{1}{2} = \frac{1}{2} \times \frac{11}{2} = \frac{1 \times 11}{2 \times 2} = \frac{11}{4} = 2\frac{3}{4}$

19. $-\frac{2}{3} \div \frac{1}{2} = \frac{2}{3} \div \frac{1}{2} = \frac{2}{3} \cdot \frac{2}{1} = \frac{4}{3} = 1\frac{1}{3}$ $-1\frac{1}{3}$

20. Stephanie is stacking blocks. If each block is $\frac{3}{4}$ inches tall how many blocks will fit in a stack $5\frac{1}{4}$ feet tall?

5 FEET = 60 INCHES

$\frac{1}{4}$ FOOT = 3 INCHES

$$63 \div \frac{3}{4} = 63 \cdot \frac{4}{3} = 84$$

84
BLOCKS
IN THE
STACK