Chapter 1 Test, Form 3A

Express each fraction or mixed number as a decimal. Use bar notation if needed. **TEKS 7.2**

1. \( \frac{8}{9} \) 0.8

2. \( -\frac{63}{4} \) -6.75

Write each decimal as a fraction or mixed number in simplest form. **TEKS 7.2**

3. \(-0.02 = \frac{1}{50} \)

4. 68.25 \(68\frac{1}{4} \)

Determine the value of each expression. Write in simplest form. **TEKS 7.3(A)**

5. \( \frac{3}{8} \times \left( -\frac{2}{7} \right) = -\frac{3}{28} \)

6. \( -\frac{7}{8} \div \frac{5}{6} = -1\frac{1}{20} \)

Replace each \( \_ \_ \) with <, >, or = to make a true sentence. **TEKS 7.2**

7. \( \frac{8}{13} \_ \frac{5}{17} \) >

8. \( -\frac{10}{15} \_ \frac{5}{14} \) <

9. A restaurant had 3 pies, each cut into eighths. By noon, \( \frac{3}{4} \) of all the pieces were sold. How many pieces of pie were sold by noon? **TEKS 7.3(B)** 18 pieces

10. Find the perimeter of the figure. **TEKS 7.3(B)**

11. Order the lengths \( \frac{1}{4} \) inch, 0.5 inch, and \( \frac{10}{25} \) inch from least to greatest. **TEKS 7.2**

12. It takes Mara 50 minutes to walk to her friend's house 1\( \frac{2}{3} \) miles away. What is her walking pace in miles per hour? **TEKS 7.3(B)** 2 mph

13. A recipe calls for \( \frac{3}{4} \) cups of milk. If the recipe is tripled, how much milk is needed? **TEKS 7.3(B)**

14. Aran practiced piano for \( \frac{11}{3} \) hours on Monday and \( \frac{5}{6} \) hour on Tuesday. How much did he practice in all on those two days? **TEKS 7.3(B)**

15. Determine the area of a rectangle with a length of \( 5\frac{1}{8} \) meters and a width of \( 3\frac{3}{7} \) meters. **TEKS 7.3(B)**

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Chapter 1 Test, Form 3A  (continued)

16. Diane is painting a bedroom with a mix of the paints listed in the table. What is the total amount of paint in the mix?  
\[ \frac{7}{12} \text{ pt} \]  
(TEKS 7.3(B))  

17. A recipe calls for \(2\frac{1}{4}\) cups of sugar. If one-third of the recipe is made, how much sugar is needed?  
\[ \frac{3}{4} \text{ c} \]  
(TEKS 7.3(B))  

18. Reggie jogged \(2\frac{1}{2}\) times around the perimeter of a neighborhood. The perimeter of the neighborhood is \(2\frac{1}{4}\) kilometers long. How far did he jog?  
\[ 5\frac{5}{8} \text{ km} \]  
(TEKS 7.3(B))  

19. Caroline bought \(12\frac{1}{4}\) feet of plywood to make a table. She needs a total of \(1\frac{1}{4}\) feet of plywood for the four legs. The tabletop requires \(6\frac{1}{4}\) feet of plywood. The supports require \(3\frac{1}{4}\) feet of plywood. Will Caroline have enough plywood left for the supports after she uses the wood she bought for the legs and the tabletop? Explain.  
Yes, she will have \(4\frac{1}{2}\) ft of plywood left, and she needs \(3\frac{1}{4}\) ft.  
(TEKS 7.3(B))  

Use a problem-solving model to solve each problem.

20. Peter bought a dozen blueberry muffins. He ate \(\frac{1}{3}\) of them and then divided the remaining muffins equally among four friends. How much did Peter spend on each friend’s muffins?  
\(\frac{5}{14}\) of the apple pie and \(\frac{5}{12}\) of the chocolate pie  
(TEKS 7.3(B))  

21. Gen prepared 4 apple pies and 6 chocolate pies for a party. At the party, \(3\frac{2}{7}\) of the apple pies and \(\frac{5}{6}\) of the chocolate pies were eaten. Gen and her family later ate \(\frac{1}{2}\) of the pies left over. What fraction of each of the pies was still left?  

22. Christina is tying two pieces of string together to make a single piece. Her knot will reduce the length of each piece by \(\frac{1}{4}\) inch. If one piece is \(3\frac{1}{4}\) inches long and the other is \(5\frac{1}{2}\) inches long, what will be the length of the single piece of string?  
\[ 8\frac{1}{4} \text{ in.} \]  
(TEKS 7.3(B))  

23. Davis traveled 35 miles in \(\frac{1}{2}\) hour. If he continues traveling at the same speed and started his journey at 2:00 P.M., at what time will he reach his destination 245 miles away?  
\[ 5:30 \text{ P.M.} \]  
(TEKS 7.3(B))