



Chapter 7 Section B Diagnostic Checkpoint

MULTIPLE CHOICE

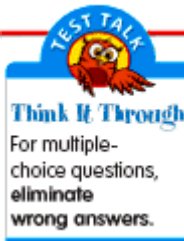
1. Which are two equivalent fractions that name the shaded part? (7-7)



- A. $\frac{1}{2}, \frac{4}{8}$ B. $\frac{1}{4}, \frac{2}{8}$ C. $\frac{2}{8}, \frac{1}{2}$ D. $\frac{2}{8}, \frac{2}{10}$

2. Which list shows $3\frac{5}{18}, \frac{19}{6}$, and $3\frac{7}{9}$ in order from least to greatest? (7-12)

- A. $\frac{19}{6}, 3\frac{7}{9}, 3\frac{5}{18}$ B. $3\frac{7}{9}, 3\frac{5}{18}, \frac{19}{6}$ C. $3\frac{5}{18}, \frac{19}{6}, 3\frac{7}{9}$ D. $\frac{19}{6}, 3\frac{5}{18}, 3\frac{7}{9}$



SHORT RESPONSE

Find the missing number to make the fractions equivalent. (7-8)

3. $\frac{4}{\square} = \frac{32}{40}$ 4. $2\frac{5}{7} = 2\frac{\square}{42}$ 5. $3\frac{18}{\square} = 3\frac{3}{4}$ 6. $\frac{18}{54} = \frac{\square}{9}$

Find the GCF of each pair of numbers. (7-9)

7. 15, 18 8. 5, 9 9. 27, 72 10. 36, 100

Write each fraction in simplest form. (7-10)

11. $\frac{8}{20}$ 12. $\frac{14}{63}$ 13. $\frac{21}{24}$ 14. $\frac{6}{22}$

Compare. Write >, <, or = for each \bullet . (7-11, 7-12)

15. $\frac{6}{7} \bullet \frac{6}{11}$ 16. $\frac{11}{20} \bullet \frac{5}{12}$ 17. $\frac{6}{7} \bullet \frac{8}{9}$ 18. $4\frac{3}{7} \bullet 4\frac{2}{5}$

Use the table at the right for 19–20. (7-11, 7-12)

19. Which piece of fabric is shorter, the blue or the white?
20. Order the lengths of fabric from the least to the greatest.

Yards of Fabric	
Color	Yards
Blue	$2\frac{2}{3}$
Green	$2\frac{1}{2}$
Red	$2\frac{3}{4}$
White	$2\frac{4}{9}$
Yellow	$\frac{1}{6}$

Writing in Math

21. Explain why the GCF of 8 and 9 is 1. (7-9)
22. How do you decide whether $\frac{15}{40}$ is in simplest form? (7-10)