

Name: \_\_\_\_\_

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# Cumulative Review

## for Chapters 3 and 4

### Concepts and Skills

Shade and label the model to show the sum of  $\frac{1}{3}$  and  $\frac{3}{5}$ .

Then complete the addition sentence. (Lesson 3.1)

1.



$$\frac{1}{3} + \frac{3}{5} = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$

**Add.** Express each sum in simplest form. (Lesson 3.1)

2.  $\frac{3}{4} + \frac{1}{12} =$

3.  $\frac{3}{5} + \frac{2}{7} =$

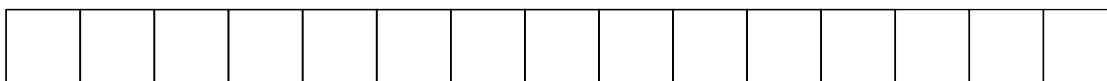
**Estimate each sum by using the benchmarks, 0,  $\frac{1}{2}$  or 1.** (Lesson 3.1)

4.  $\frac{8}{9} + \frac{2}{5}$

5.  $\frac{1}{8} + \frac{6}{7} + \frac{1}{6}$

**Shade and label the model to show the difference between  $\frac{4}{5}$  and  $\frac{2}{3}$ .**  
**Then complete the subtraction sentence.** (Lesson 3.2)

6.



$$\frac{4}{5} - \frac{2}{3} = \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$$
$$= \underline{\hspace{2cm}}$$

**Subtract. Express each difference in simplest form.** (Lesson 3.2)

7.  $\frac{3}{4} - \frac{1}{12} =$

8.  $\frac{3}{5} - \frac{3}{9} =$

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**Estimate each difference by using the benchmarks, 0,  $\frac{1}{2}$  or 1.** (Lesson 3.2)

9.  $\frac{4}{5} - \frac{3}{8}$

10.  $\frac{7}{12} - \frac{5}{9}$

**Write each division expression as a fraction.** (Lesson 3.3)

11.  $4 \div 9 = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

12.  $8 \div 11 = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

**Write each fraction as a division expression.** (Lesson 3.3)

13.  $\frac{5}{6} = \underline{\hspace{2cm}} \div \underline{\hspace{2cm}}$

14.  $\frac{7}{12} = \underline{\hspace{2cm}} \div \underline{\hspace{2cm}}$

**Complete.** (Lesson 3.3)

15.  $7 \div 5 = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$   
 $= \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} + \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$   
 $= 1 + \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$   
 $= \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

16.  $19 \div 4 = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$   
 $= \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} + \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$   
 $= 4 + \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$   
 $= \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

**Divide. Express each quotient as a mixed number in simplest form.** (Lesson 3.3)

**17.**  $22 \div 8 = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$   
 $= \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$   
 $= \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

**18.**  $28 \div 6 = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$   
 $= \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$   
 $= \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

**Express each fraction as a decimal.** (Lesson 3.4)

**19.**  $\frac{4}{5} = \underline{\hspace{2cm}}$   
 $= \underline{\hspace{2cm}}$

**20.**  $\frac{17}{20} = \underline{\hspace{2cm}}$   
 $= \underline{\hspace{2cm}}$

**Express each division expression as a mixed number and as a decimal.**  
 (Lessons 3.3 and 3.4)

	Division expression	Express division expression as	
		a mixed number	a decimal
<b>21.</b>	$13 \div 4$		
<b>22.</b>	$23 \div 5$		

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**Add. Express each sum in simplest form.** (Lesson 3.5)

23.  $2\frac{2}{7} + 3\frac{1}{2}$

24.  $1\frac{1}{2} + 1\frac{5}{9}$

**Estimate each sum by using the nearest whole number or half.** (Lesson 3.5)

25.  $1\frac{5}{8} + 1\frac{1}{5}$

26.  $2\frac{1}{6} + 3\frac{4}{5}$

**Subtract. Express each difference in simplest form.** (Lesson 3.6)

27.  $5\frac{8}{9} - 3\frac{5}{6}$

28.  $4\frac{2}{7} - 2\frac{7}{8}$

**Estimate difference by using the nearest whole number or half.** (Lesson 3.6)

29.  $2\frac{1}{10} - 1\frac{4}{7}$

30.  $3\frac{3}{8} - 1\frac{7}{12}$

**Find the product in simplest form.** (*Lesson 4.1*)

**31.**  $\frac{6}{7} \times \frac{5}{8} =$

**32.**  $\frac{4}{5} \times \frac{10}{12} =$

**33.**  $\frac{2}{5}$  of  $\frac{10}{11} =$

**34.**  $\frac{8}{9}$  of  $\frac{5}{12} =$

**Multiply. Express the product in simplest form.** (*Lesson 4.3*)

**35.**  $\frac{2}{5} \times \frac{15}{7} =$

**36.**  $\frac{9}{5} \times \frac{5}{12} =$

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**Multiply. Express the product as a whole number or a mixed number in simplest form.** (Lesson 4.3)

37.  $\frac{4}{3} \times \frac{7}{6} =$

38.  $\frac{8}{3} \times \frac{9}{12} =$

39.  $\frac{7}{8} \times \frac{6}{5} =$

40.  $\frac{25}{4} \times \frac{10}{8} =$

**Multiply. Express the product as a whole number or a mixed number in simplest form.** (Lesson 4.4)

41.  $2\frac{1}{4} \times 16 =$

42.  $27 \times 1\frac{2}{9} =$

**Multiply. Express the product as a whole number or a mixed number in simplest form.** (Lesson 4.4)

**43.**  $5\frac{3}{6} \times 42 =$

**44.**  $2\frac{5}{6} \times 15 =$

**Divide. Express each quotient in simplest form.** (Lesson 4.6)

**45.**  $\frac{7}{8} \div 5 =$

**46.**  $\frac{5}{8} \div 4 =$

**47.**  $\frac{4}{7} \div 12 =$

**48.**  $\frac{2}{9} \div 6 =$



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## Problem Solving

**Solve. Show your work.**

**49.** Ron used  $\frac{3}{5}$  pound of flour to bake bread and  $\frac{2}{7}$  pound of flour to bake scones. How many more pounds of flour did he use to bake bread than scones?

**50.** Tina uses  $4\frac{5}{12}$  yards of wire for her science project. Kelvin uses  $1\frac{2}{3}$  yards of wire for his project. How many yards of wire do they use altogether?

- 51.** Rosa poured  $1\frac{3}{4}$  quarts of orange juice into a container. She added  $3\frac{1}{3}$  quarts of apple juice. She then poured  $2\frac{2}{3}$  quarts of the mixed juice into a pitcher.

How many quarts of mixed juice were left in the container?

- 52.** In a marathon, Hamish had to run a total distance of  $\frac{11}{12}$  mile. He ran  $\frac{4}{5}$  of the distance. How many miles did he run?

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**53.** Ashley uses  $\frac{1}{4}$  of a packet of raisins for a fruit cake. She then uses  $\frac{1}{9}$  of the remainder for some biscuits. What fraction of the packet of raisins does she have left?

**54.** Mrs. Vernon used  $4\frac{3}{8}$  pounds of meat to make one pot of soup. She made 12 equal-sized pots of soup. How many pounds of meat did she use altogether?

**55.** A custodian pours  $\frac{3}{8}$  gallon of cleaning solution equally into 9 pails.  
Find the volume of solution in two of these pails.

**56.** A carnival sold 135 bottles of juice in one day. They sold  $\frac{1}{3}$  of  
the bottles in the first hour and  $\frac{2}{5}$  of the bottles in the second hour.  
How many bottles of juice did they sell altogether in these two hours?

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**57.** Ms. Li spent \$840 on a vacation. She spent  $\frac{2}{3}$  of the amount on a train ticket and  $\frac{1}{2}$  of the remaining amount on food. How much did she spend on the ticket and food altogether?

**58.** Sam travelled  $\frac{1}{4}$  of a journey by bus. He jogged  $\frac{1}{2}$  of the remaining distance and walked the rest of the way. If he walked 800 feet, what was the total distance he traveled?

- 59.** Matthew used  $\frac{1}{5}$  of a box of flour for cooking and  $\frac{3}{4}$  of the remainder to make bread. The rest of the flour was packed equally into 5 containers. What fraction of the total amount of flour was in each container?
- 60.** A bus driver filled up  $\frac{7}{8}$  of her fuel tank for a trip. She used  $\frac{6}{7}$  of the fuel by the end of the trip. The capacity of her tank is 70 gallons. How much fuel did she use for the trip? Express your answer as a decimal.