Grade 5

End of Year Math in Focus Review Packet

Divide. *(Lesson 2.5)*

1. $9{,}229 \div 17 =$ _____

2. $4{,}749 \div 46 =$ _____

Simplify. *(Lesson 2.6)*

3. $29 + 42 \div 6 =$ _____

4. $(90 - 85) \times 7 =$ _____

5. $50 \times 8 + 12 \div 4 =$ _____

6. $69 \div 3 - 3 + 10 =$ _____

Problem Solving

Solve. Show your work.

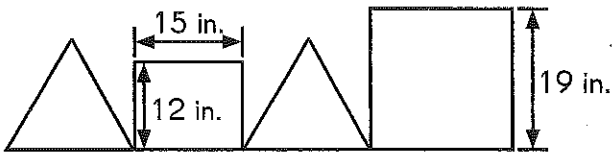
7. Tony had an equal number of cranberry bars and walnut bars. He gave away 66 cranberry bars. He then had 4 times as many walnut bars as cranberry bars left. How many bars did he have at first?

8. Mrs. Turner had 20 yards of fabric at first. She made 5 similar curtains. She used 3 yards of fabric for making each curtain. Then she used another 2 yards of fabric to make a cushion cover. How much fabric does she have left?

Solve. Show your work.

9. At a school fair, a fifth-grade class sold 25 liters of orange juice. The orange juice was sold in cups containing 200 milliliters and 300 milliliters. An equal number of cups containing 200 milliliters and 300 milliliters were sold. How many cups of orange juice did the class sell?

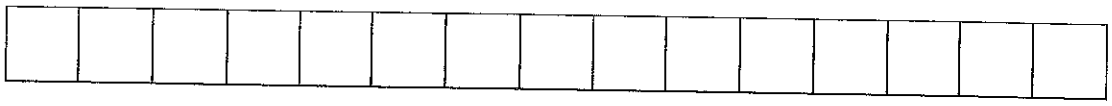
10. Mikhail used 220 inches of wire to make this figure.



The figure is made up of two identical triangles, a 15-inch by 12-inch rectangle and a square of side 19 inches. What is the length of one side of each triangle if all the sides of the triangles are equal in length?

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)*

11.



$\frac{1}{3} + \frac{3}{5} =$ _____ + _____

= _____

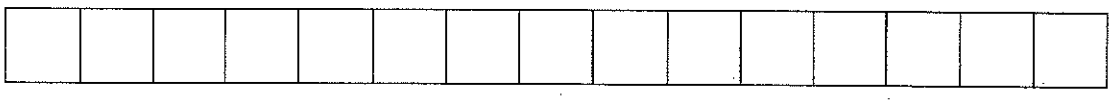
Add. Express each sum in simplest form. *(Lesson 3.1)*

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

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

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)*

14.



$\frac{4}{5} - \frac{2}{3} =$ _____ − _____

= _____

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

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

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

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

17. $4 \div 9 = \frac{\square}{\square}$

18. $8 \div 11 = \frac{\square}{\square}$

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

19. $\frac{5}{6} =$ _____ $\div$ _____

20. $\frac{7}{12} =$ _____ $\div$ _____

Complete. *(Lesson 3.3)*

21. $7 \div 5 = \frac{\square}{\square}$

$= \frac{\square}{\square} + \frac{\square}{\square}$

$= 1 + \frac{\square}{\square}$

$= \square \frac{\square}{\square}$

22. $19 \div 4 = \frac{\square}{\square}$

$= \frac{\square}{\square} + \frac{\square}{\square}$

$= 4 + \frac{\square}{\square}$

$= \square \frac{\square}{\square}$

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

23. $22 \div 8 = \frac{\square}{\square}$

$= \frac{\square}{\square}$

$= \square \frac{\square}{\square}$

24. $28 \div 6 = \frac{\square}{\square}$

$= \frac{\square}{\square}$

$= \square \frac{\square}{\square}$

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

25. $\frac{4}{5} =$ _____

$=$ _____

26. $\frac{17}{20} =$ _____

$=$ _____

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

	Division expression	Express division expressions as	
		a mixed number	a decimal
27.	$13 \div 4$		
28.	$23 \div 5$		

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

29. $2\frac{2}{7} + 3\frac{1}{2}$

30. $1\frac{1}{2} + 1\frac{5}{9}$

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

31. $1\frac{5}{8} + 1\frac{1}{5}$

32. $2\frac{1}{6} + 3\frac{4}{5}$

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

33. $5\frac{8}{9} - 3\frac{5}{6}$

34. $4\frac{2}{7} - 2\frac{7}{8}$

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

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

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

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

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

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

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

40. $\frac{9}{5} \times \frac{5}{12} =$

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

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

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

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

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

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

45. $2\frac{1}{4} \times 16 =$

46. $27 \times 1\frac{2}{9} =$

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

47. $5\frac{3}{6} \times 42 =$

48. $2\frac{5}{6} \times 15 =$

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

49. $\frac{7}{8} \div 5 =$

50. $\frac{5}{8} \div 4 =$

51. $\frac{4}{7} \div 12 =$

52. $\frac{2}{9} \div 6 =$

Problem Solving

Solve. Show your work.

53. 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?

54. 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?

55. 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?

56. 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?

57. 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?

58. 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?

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

60. 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?

61. 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?

62. 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?

63. 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?

64. 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.

Solve.

65. Hazel saves $5.75 each week.

a. How much does she save in 2 weeks?

b. She spends $23.83 on a book and $9.12 on a wallet. How much does she spend on the two items?

66. Evelyn has 12.7 quarts of fruit punch in a pitcher. She pours the fruit punch into glasses. She fills 5 glasses, each with a capacity of 0.36 quart. Then she fills 8 glasses, each with a capacity of 0.52 quart. How much fruit punch is left in the pitcher?

Write the equivalent decimal. *(Lesson 8.1)*

67. 8 ones and 214 thousandths = _____

68. 1,180 thousandths = _____

69. $7\frac{60}{1000}$ = _____

70. $\frac{6050}{1000}$ = _____

Order the decimals. *(Lesson 8.2)*

71. 2.08, 1.973, 6.1

Begin with the least:

_____

72. 1.567, 1.667, 1.376

Begin with the greatest:

_____

Write each decimal as a mixed number in simplest form. *(Lesson 8.3)*

73. 6.2 = _____

74. 2.16 = _____

Multiply. *(Lessons 9.1 and 9.2)*

75. $29.3 \times 8 =$ _____

76. $12.08 \times 5 =$ _____

77. $86.4 \times 10 =$ _____

78. $13.5 \times 30 =$ _____

79. $73.96 \times 100 =$ _____

80. $6.2 \times 700 =$ _____

81. $9.34 \times 1{,}000 =$ _____

82. $25.6 \times 9{,}000 =$ _____

Divide. *(Lesson 9.3)*

83. $0.5 \div 5 =$ _____

84. $0.63 \div 9 =$ _____

85. $36.8 \div 4 =$ _____

86. $96.3 \div 5 =$ _____

87. $3.36 \div 4 =$ _____

88. $1.92 \div 8 =$ _____

Divide. *(Lesson 9.4)*

89. $38 \div 10 =$ _____

90. $19.6 \div 20 =$ _____

91. $4.5 \div 100 =$ _____

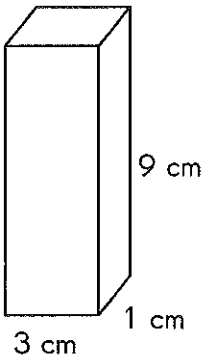
92. $375 \div 300 =$ _____

93. $5{,}030 \div 1{,}000 =$ _____

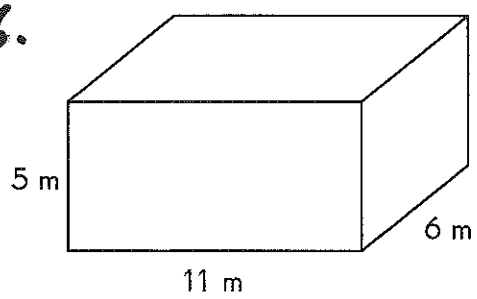
94. $2{,}506 \div 7{,}000 =$ _____

Find the volume of each rectangular prism. *(Lesson 15.5)*

95.



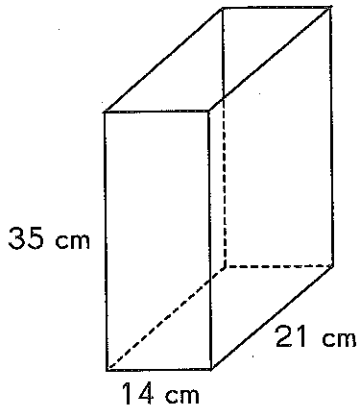
96.



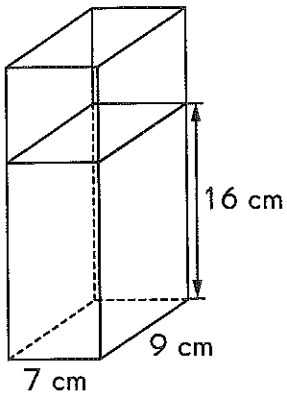
Find the volume of water in each container in liters and milliliters.

(Lesson 15.5)

97.



98.



Solve. Show your work.

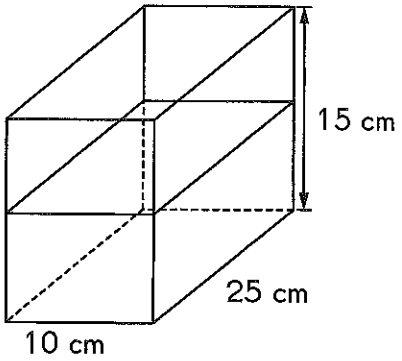
99. The length of a rectangular block is 20 inches. Its width is half its length. Its height is half its width. What is the surface area of the block?

100. A rectangular prism is 15 inches long and 12 inches high. Its width is $\frac{3}{5}$ its length. Find its volume.

Solve. Show your work.

101. Three cubes with edges measuring 5 inches are stacked on top of one another. What is the total volume of the 3 cubes?

102. The rectangular container shown contains 2 liters of water. How much more water must be added to fill the container completely? Give your answer in liters.



Solve. Show your work.

103. A container is 28 centimeters long, 14 centimeters wide, and 10 centimeters high. It is half-filled with juice. Kathy pours 500 milliliters of water into the container to make a juice drink. Find the volume of juice drink in the container now. Give your answer in liters and milliliters.