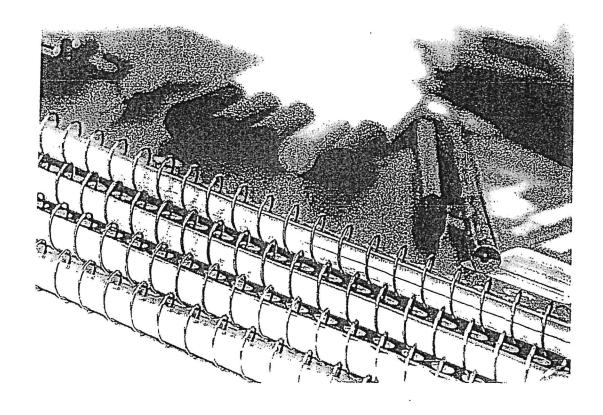
Summer Math for 5C5 Grade 7



Please complete this entire Math packet and bring it with you on the first day of seventh grade math. It counts as your first test grade. This assignment contains many different types of Math concepts. Try your best! ALSO, MAKE SURE YOU SHOW ALL OF YOUR WORK ON LOOSE LEAF AND PLACE YOUR ANSWERS ON THE LINES PROVIDED ON EACH WORKSHEET.

Name	_ Date	Class
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CHAPTER Family Letter

Understanding Fractions

Write each decimal as a fraction or a mixed number.

- 1. 0.37
- 2. 0.09
- 3. 6.11
- 4. 1.2

Write each fraction or mixed number as a decimal.

5. $3\frac{2}{5}$

6. $\frac{3}{8}$

7. $4\frac{1}{9}$

8. $\frac{7}{12}$

Order the fractions and decimals from least to greatest.

9. 0.38, $\frac{1}{3}$, $\frac{3}{10}$

10. $\frac{8}{15}$, $\frac{1}{2}$, 0.75

Find two equivalent fractions for each given fraction.

- 11. $\frac{12}{16}$
- 12. $\frac{11}{22}$

13. $\frac{5}{9}$

14. $\frac{14}{21}$



Find the missing number that makes the fractions equivalent.

15.
$$\frac{4}{5} = \frac{?}{20}$$

16.
$$\frac{9}{12} = \frac{3}{?}$$

17.
$$\frac{9}{10} = \frac{36}{2}$$

Write each fraction in simplest form.

18.
$$\frac{6}{18}$$

19.
$$\frac{12}{15}$$

20.
$$\frac{25}{40}$$

Compare. Write < , >, or =.

21.
$$\frac{3}{5}$$
 $\frac{4}{5}$

22.
$$\frac{11}{15}$$
 $\frac{2}{3}$

23.
$$\frac{9}{33}$$
 $\frac{3}{11}$

24. Harry needs $3\frac{3}{8}$ feet of wood to make a birdhouse. Write $3\frac{3}{8}$ as an

improper fraction.

Name	Date		Class	
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CHAPTER Family Letter

Multiplying and Dividing Fractions

Multiply. Write the answer in simplest form.

1.
$$\frac{1}{2} \cdot \frac{3}{5}$$

2.
$$\frac{1}{4} \cdot \frac{6}{7}$$

3.
$$\frac{5}{9} \cdot \frac{3}{10}$$

4.
$$\frac{2}{3} \cdot \frac{3}{8}$$

Evaluate the expression $x \cdot \frac{1}{3}$ for each value of x.

5.
$$x = \frac{3}{8}$$

6.
$$x = \frac{9}{10}$$

7.
$$x = \frac{6}{11}$$

Multiply. Write the answer in simplest form.

8.
$$3\frac{1}{4} \cdot \frac{1}{8}$$

9.
$$5 \cdot 2\frac{1}{5}$$

10.
$$2\frac{1}{3} \cdot 3\frac{1}{2}$$

Find the reciprocal.

11.
$$\frac{6}{9}$$

12.
$$\frac{7}{11}$$

13.
$$\frac{6}{7}$$

14.
$$\frac{1}{2}$$

Divide. Write the answer in simplest form.

15.
$$\frac{7}{9} \div 3$$

16.
$$\frac{4}{7} \div \frac{5}{7}$$

17.
$$3\frac{1}{2} \div 1\frac{7}{8}$$

17.
$$3\frac{1}{2} \div 1\frac{7}{8}$$
 18. $\frac{8}{15} \div 2\frac{3}{5}$

Solve each equation. Write the answer in simplest form.

19.
$$5x = \frac{2}{3}$$

20.
$$\frac{2}{5}x = 18$$

21.
$$\frac{8x}{9} = 16$$

Family Letter

Adding and Subtracting Fractions

Find the least common multiple (LCM).

Find each sum or difference by rounding to $0, \frac{1}{2}$, or 1.

5.
$$\frac{3}{4} + \frac{3}{8}$$

6.
$$\frac{7}{11} - \frac{2}{5}$$

7.
$$\frac{4}{15} + \frac{7}{20}$$

Add or subtract. Write each answer in simplest form.

8.
$$\frac{6}{7} + \frac{1}{2}$$

9.
$$\frac{5}{9} - \frac{1}{3}$$

10.
$$\frac{3}{8} + \frac{5}{12}$$

11.
$$6\frac{3}{5} + 5\frac{1}{4}$$

12.
$$5\frac{1}{9} + 8\frac{1}{3}$$

$$13.10\frac{6}{8} - 2\frac{1}{4}$$

Find each sum or difference. Write the answer in simplest form.

14.
$$7 - 5\frac{3}{4}$$

15.
$$6\frac{3}{5} + 4\frac{2}{3}$$

16.
$$15\frac{1}{8} - 7\frac{5}{6}$$

Solve each equation. Write the solution in simplest form.

17.
$$y - 6\frac{1}{6} = 7\frac{1}{2}$$

18.
$$x + 2\frac{4}{7} = 3\frac{1}{14}$$

19.
$$3\frac{3}{8} = a - 8\frac{10}{16}$$

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Link	Organi	zing	Data	3					Ġ.					
1.	 Ms. Fike has been teaching for five years. Her first year, she had 22 students. Her second year, she had 25 students. Her third year, she had 28 students. Her fourth year, she had 31 students. Her fifth year, she had 34 students. Use this data to make a table. 													
2.	L. Use your table from Exercise 1 to find a pattern in the data and draw a conclusion.													
Fin	Find the range, mean, median, and mode of each data set.													
	Price of composition	uter	\$34	\$28	\$57	\$30	\$	38 .	\$69	\$44		\$30	\$30	
3.	Mean	4. Median												
5.	Mode	ode 6. Range												
		F	ATTEN	DANÇI	E AT S	COTT	ΛID	DLE	SCHO	OOL				
	Year	Year 199		1998		1999		2000		2001		2002		
	Attendance	1	80	195	5	210		192	2	18	35		208.	
7.	Mean			*		8. Med	dian		_	٠				
9.	Mode					10. Rar	ige							
11.	Kate sells kitch week were \$85 mean, median, data set?	6, \$1,	034, \$7	798, \$2,	950, ar	id \$832.	Wh	at are	the		. ×			

Dividing Mixed Numbers

$$3\frac{2}{5} \div 4$$

Rename $3\frac{2}{5}$ as $\frac{17}{5}$.

Rename 4 as $\frac{4}{1}$.

$$\frac{17}{5} \times \frac{1}{4} = \frac{17}{20}$$

 $\frac{17}{5} \div \frac{4}{1}$ Rename 4 as $\frac{4}{1}$. $\frac{17}{5} \times \frac{1}{4} = \frac{17}{20}$ Multiply by the reciprocal.

$$4\frac{1}{3} \div 2\frac{3}{4}$$

 $\frac{13}{3} \div 4$

Rename.

$$\frac{13}{3} \times \frac{1}{11} = \frac{52}{33} = 1\frac{19}{33}$$

 $\frac{13}{3} \times \frac{4}{11} = \frac{52}{33} = 1\frac{19}{33}$ Multiply by the reciprocal.

Divide. Write answers in simplest form.

1.
$$2\frac{1}{2} \div 3\frac{1}{3}$$

$$1\frac{1}{8} \div 2\frac{1}{4}$$

$$8 \div 3\frac{1}{2}$$

d

$$2\frac{1}{3} \div 5$$

2.
$$4\frac{1}{2} \div 1\frac{1}{6}$$

$$4\frac{5}{6} \div 2\frac{2}{5}$$

$$4\frac{1}{3} \div 6$$

$$1\frac{1}{2} \div 3\frac{1}{8}$$

3.
$$6 \div 2\frac{1}{2}$$

$$1\frac{1}{2} \div 3$$

$$5 \div 3\frac{3}{4}$$

$$2\frac{1}{8} \div 3$$

4.
$$3\frac{3}{5} \div 4$$

$$3\frac{1}{3} \div 2\frac{3}{8}$$

$$1 \div 4\frac{1}{3}$$

$$9 \div 1\frac{2}{3}$$

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LESSON

Decimals

Practice B: Multiplying Decimals

Find each product.

1.
$$\begin{array}{c} 0.7 \\ \times 0.3 \end{array}$$

2.
$$\times 0.05 \times 0.4$$

3.
$$\times 0.02$$

4.
$$\begin{array}{c} 3.5 \\ \times 0.2 \end{array}$$

6.
$$\times 0.9$$

Evaluate 8x for each value of x.

13.
$$x = 0.5$$

14.
$$x = 2.3$$

15.
$$x = 0.74$$

16.
$$x = 3.12$$

17.
$$x = 0.587$$

18.
$$x = 14.08$$

- 19. The average mail carrier walks 4.8 kilometers in a workday. How far do most mail carriers walk in a 6-day week? There are 27 working days in July, so how far will a mail carrier walk in July?
- 20. A deli charges \$3.45 for a pound of turkey. If Tim wants to purchase 2.4 pounds, how much will it cost?

LESSON Decimals

Practice B: Dividing by Decimals

Find each quotient.

$$1.9.0 \div 0.9$$

$$2.29.6 \div 3.7$$

7.
$$20.4 \div 5.1$$

Evaluate $x \div 1.2$ for each value of x.

13.
$$x = 40.8$$

14.
$$x = 1.8$$

15.
$$x = 10.8$$

16.
$$x = 14.4$$

17.
$$x = 4.32$$

18.
$$x = 0.06$$

- 19. Anna is saving \$6.35 a week to buy a computer game that costs \$57.15. How many weeks will she have to save to buy the game?
- 20. Ben ran a 19.5-mile race last Saturday. His average speed during the race was 7.8 miles per hour. How long did it take Ben to finish the race?

Date ____ Class__

LESSON Introduction to Algebra

Practice B: Addition Equations

Solve each equation. Check your answers.

1.
$$s + 3 = 23$$

2.
$$v + 10 = 49$$

3.
$$q + 9 = 16$$

4.
$$81 + m = 90$$

5.
$$38 + x = 44$$

6.
$$28 + n = 65$$

7.
$$t + 31 = 50$$

8.
$$25 + p = 39$$

9.
$$19 + v = 24$$

Solve each equation. Check your answers.

10.
$$m + 8 = 17$$

11.
$$r + 14 = 20$$

12.
$$25 + x = 32$$

13.
$$47 + p = 55$$

14.
$$19 + d = 27$$

15.
$$13 + n = 26$$

16.
$$q + 12 = 19$$

17.
$$34 + f = 43$$

18.
$$52 + w = 68$$

NOW YOU !!

Use >, <, or = to compare the numbers.

1.
$$-6$$
 -5

Order each set of integers from least to greatest.

19.
$$-9, 4, 0$$

20.
$$-7$$
, -8 , -4

$$24. 3, -3, 10, -10$$

Problem Solving

25. The low temperature on Monday was 5°F, the low temperature on Tuesday was -5°F, and the low temperature on Wednesday was -1°F. On which day did the lowest temperature occur?

Add the integers.

17.
$$35 + (-1) =$$

17.
$$35 + (-1) = ____$$
 18. $-10 + (-12) = _____$

19.
$$-6 + (-5) =$$

$$20. \ 0 + (-6) =$$

$$20. \ 0 + (-6) =$$
 $21. \ 50 + (-2) =$

22.
$$1 + (-7) =$$

23.
$$15 + (-15) =$$
 24. $2 + (-9) =$

$$24. 2 + (-9) =$$

26.
$$4 + (-12) =$$
 27. $-23 + 8 =$ _____

28.
$$10 + (-15) =$$

Problem Solving

- 31. The temperature in Middlefield at 6 A.M. was -15° F. By 3 р.м., the temperature had risen 19°F. What was the temperature at 3 P.M.?
- 32. A diver was 7 m below the surface of the water. The diver then descended 3 m. What integer represents the diver's position after the descent?
- 33. Khalia climbed 33 ft up a mountain and stopped to have lunch. She then descended 17 ft. What integer represents her position on the mountain?

Subtract.

Problem Solving

- 25. The elevation of New Orleans, Louisiana, is 8 feet below sea level. The elevation of Lake Champlain, Vermont, is 95 feet above sea level. How much higher is the elevation of Lake Champlain than New Orleans?
- 26. In Fairbanks, Alaska, a typical January temperature is -13°F and a typical April temperature is 30°F. What is the difference between these temperatures?

Multiply.

7.
$$-2 \cdot 4 =$$
 8. $-5 \cdot 6 =$

$$8. -5 \cdot 6 =$$

9.
$$4 \cdot (-5) =$$

10.
$$-1 \cdot (-13) =$$
 11. $2 \cdot (-8) =$

11.
$$2 \cdot (-8) =$$

14.
$$7 \cdot (-4) =$$

15.
$$-8 \cdot 11 =$$

17.
$$-3 \cdot (-12) =$$

18.
$$-4 \cdot 5 =$$

19.
$$-7 \cdot 7 =$$
 _____ 20. $6 \cdot (-10) =$ ____

$$-20 \cdot (-5) =$$

22.
$$-20 \cdot (-5) =$$
 _____ 23. $8 \cdot (-30) =$ ____

25.
$$-7 \cdot (-13) =$$
 _____ 26. $14 \cdot (-5) =$ _____

26.
$$14 \cdot (-5) =$$

28.
$$9 \cdot (-30) =$$

29.
$$-20 \cdot (-30) =$$

30.
$$0 \cdot (-16) =$$

Problem Solving

- 31. There was a temperature change of -2° F each hour over a period of 5 hours. In all, what was the temperature change over the 5-hour period?
- 32. The price of a share of stock increased \$3 each week over a 7-week period. What was the total change in the price of a share of the stock over this period of time?
- 33. Justin spends \$6 on school lunch each day. If he figures out a budget for a 5-day school week, what number represents the expense of lunch?

Divide.

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7.
$$-8 \div (-4) =$$

8.
$$-20 \div 4 =$$

16.
$$-6 \div (-2) =$$

17.
$$0 \div (-5) \doteq ____$$

19.
$$56 \div 8 =$$

20.
$$-35 \div (-7) =$$

22.
$$72 \div (-8) =$$

23.
$$-45 \div (-9) =$$

25.
$$-42 \div 7 =$$

9.
$$-6 \div 2 =$$

12.
$$-18 \div 3 =$$

21.
$$48 \div (-8) =$$

$$24. -35 \div 5 =$$

27.
$$-36 \div (-6) =$$
