Name_____

Proportions

Date_____ Period____

State if each pair of ratios forms a proportion.

1) $\frac{4}{2}$ and $\frac{20}{6}$

2) $\frac{3}{2}$ and $\frac{18}{8}$

3) $\frac{4}{3}$ and $\frac{16}{12}$

4) $\frac{4}{3}$ and $\frac{8}{6}$

5) $\frac{12}{24}$ and $\frac{3}{4}$

6) $\frac{6}{9}$ and $\frac{2}{3}$

Solve each proportion.

7) $\frac{10}{k} = \frac{8}{4}$

8) $\frac{m}{10} = \frac{10}{3}$

9) $\frac{2}{x} = \frac{7}{9}$

10) $\frac{3}{x} = \frac{7}{10}$

11) $\frac{4}{9} = \frac{2}{x}$

12) $\frac{6}{a} = \frac{3}{8}$

13) $\frac{8n}{8} = \frac{8}{3}$

14) $\frac{7}{9} = \frac{a}{5}$

15) $\frac{p}{8} = \frac{13}{2}$

16) $\frac{3}{13} = \frac{v}{3}$

17) $\frac{10}{12} = \frac{2}{n}$

18) $\frac{11}{10} = \frac{r}{11}$

19) $\frac{x}{9} = \frac{7}{14}$

20) $\frac{a}{10} = \frac{11}{14}$

21) $\frac{v}{12} = \frac{10}{2}$

22) $\frac{6}{14} = \frac{5}{n}$

Name_____

Solving Proportions

Date_____ Period____

Solve each proportion.

1) $\frac{10}{8} = \frac{n}{10}$

2) $\frac{7}{5} = \frac{x}{3}$

3) $\frac{9}{6} = \frac{x}{10}$

4) $\frac{7}{n} = \frac{8}{7}$

5) $\frac{4}{3} = \frac{8}{x}$

6) $\frac{7}{b+5} = \frac{10}{5}$

7) $\frac{6}{b-1} = \frac{9}{7}$

8) $\frac{4}{m-8} = \frac{8}{2}$

9) $\frac{5}{6} = \frac{7n+9}{9}$

10) $\frac{4}{9} = \frac{r-3}{6}$

11) $\frac{7}{9} = \frac{b}{b-10}$

12) $\frac{9}{k-7} = \frac{6}{k}$

13) $\frac{4}{n+2} = \frac{7}{n}$

14) $\frac{n}{n-3} = \frac{2}{3}$

15) $\frac{x-3}{x} = \frac{9}{10}$

16) $\frac{5}{r-9} = \frac{8}{r+5}$

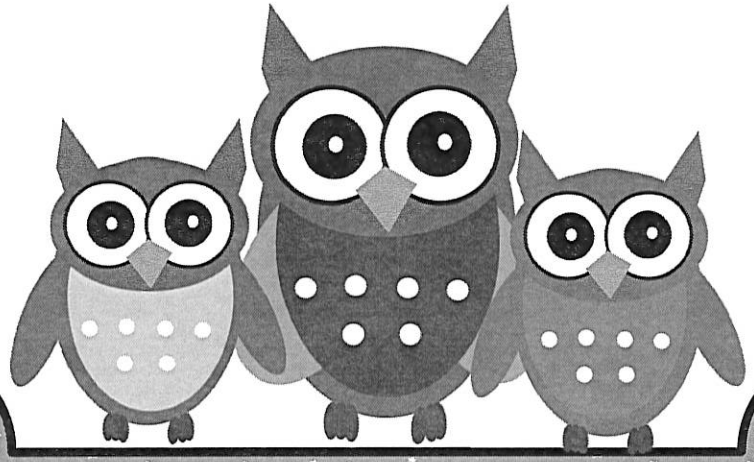
17) $\frac{p+10}{p-7} = \frac{8}{9}$

18) $\frac{2}{8} = \frac{n+4}{n-4}$

19) $\frac{n-5}{n+8} = \frac{2}{7}$

20) $\frac{n-6}{n-7} = \frac{9}{2}$

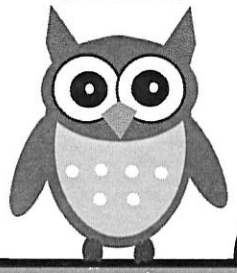
Adding Integers



Adding Integers Example

Solve the equation.

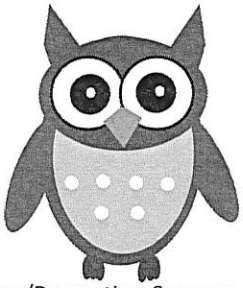
-9 + 47 = 38



Adding Integers

Solve the equation.

-8 + -49 = ☐



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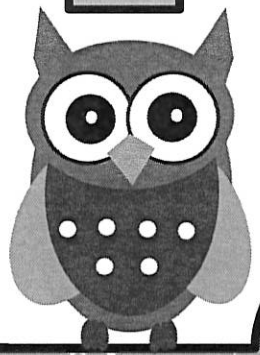
1

Adding Integers

Solve the equation.

48 + -12 = ☐



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Adding Integers

Solve the equation.

$$-47 + -6 = \square$$

3

Adding Integers

Solve the equation.

$$-14 + -47 = \square$$

4

Adding Integers

Solve the equation.

$$-41 + 9 = \square$$

5

Adding Integers

Solve the equation.

$$-11 + -40 = \square$$

6

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Adding Integers

Name:
Date:

Card #	Answer	Card #	Answer
1		4	
2		5	
3		6	

Write a word problem story using the integers 16 and -30.

Adding Integers

Name:
Date:

Card #	Answer	Card #	Answer
1		4	
2		5	
3		6	

Write a word problem story using the integers 16 and -30.

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Super Puzzle Center - Tues.

Rewriting Repeating Decimals

Name:

Rewrite each fraction as a decimal with repeating line.

1) $^{23}/_{18} =$ 1.277777777777777777777777777777777777

2) $^{4}/_{7} =$ 0.571428571428571428571428571428571428 57

3) $^{1}/_{9} =$ 0.111111111111111111111111111111111111 11

4) $^{9}/_{14} =$ 0.642857142857142857142857142857142857 14

5) $^{4}/_{15} =$ 0.266666666666666666666666666666666666 66

6) $^{29}/_{18} =$ 1.611111111111111111111111111111111111 11

7) $^{12}/_{13} =$ 0.923076923076923076923076923076923076 92

8) $^{11}/_{12} =$ 0.916666666666666666666666666666666666 66

9) $^{2}/_{3} =$ 0.666666666666666666666666666666666666 66

10) $^{17}/_{18} =$ 0.944444444444444444444444444444444444 44

11) $^{15}/_{11} =$ 1.363636363636363636363636363636363636 36

12) $^{14}/_{13} =$ 1.076923076923076923076923076923076923 07

13) $^{8}/_{15} =$ 0.533333333333333333333333333333333333 33

14) $^{3}/_{14} =$ 0.214285714285714285714285714285714285 71

15) $^{10}/_{9} =$ 1.111111111111111111111111111111111111 11

16) $^{1}/_{18} =$ 0.055555555555555555555555555555555555 55

17) $^{17}/_{11} =$ 1.545454545454545454545454545454545454 54

18) $^{13}/_{12} =$ 1.083333333333333333333333333333333333 33

19) $^{17}/_{9} =$ 1.888888888888888888888888888888888888 88

20) $^{23}/_{12} =$ 1.916666666666666666666666666666666666 66

Answers

Ex. $1.2\overline{7}$ (bar over just the 7)

1. 1.27
2. $0.\overline{571428}$
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
16.
17.
18.
19.
20.

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Proportion Word Problems

1. Carol spends 17 hours in a 2-week period practicing her culinary skills. How many hours does she practice in 5 weeks?

2. In the typing world, 80 words per minute is considered acceptable. How many words per 30 minutes is this?

3. In the year 2000, there were 8.7 deaths per 1000 residents in the United States. If there were 281,421,906 residents in the U.S. during 2000, how many people died that year?

4. In a shipment of 400 parts, 14 are found to be defective. How many defective parts should be expected in a shipment of 1000?

5. Joseph drives 125 miles in $2\frac{1}{2}$ hours. At the same rate, how far will he be able to travel in 6 hours?

6. A piece of cable 8.5 cm long weighs 52 grams. What will a 10-cm length of the same cable weigh?

7. A rainstorm produced a rainfall of 2 inches per hour. How many hours would it take to get a rainfall amount of one foot?

8. A snowstorm dumped 18 inches of snow in a 12-hour period. How many inches were falling per hour?

9. Mary can read 22 pages in 30 minutes. How long would it take her to read a 100 page book? Write your answer in hours and minutes and round to the nearest minute, if needed.

10. It takes about me 25 minutes to make out a test for a mathematics class. How long will it take to make out tests for all five of my classes?

13. A company's quality control department found and average of 5 defective models for every 1000 models that were checked. If the company produced 60,000 models in a year, how many of them would be expected to be defective?

14. To determine the number of deer in a forest, a forest ranger tags 280 and releases them back into the forest. Later, 405 deer are caught, out of which 45 of them are tagged. Estimate how many deer are in the forest.

15. An employee working at an electronics store earned $3582 for working 3 months during the summer. What did the employee earn for the first two months?

16. A worker can complete the assembly of 15 tape players in 6 hours. At this rate, how many can the worker complete in a 40-hour work week?

17. The ratio of men to women at a class is 6 to 5. How many women students are there if there are 3600 men?

18. If 3 pounds of apples costs $0.90, how much will 10 pounds cost?

19. You find that your watch gains 2 minutes in 6 hours. How much will it gain in 3 days?

20. Sirloin steak costs $2.99 per pound. How much will 3.4 pounds cost?

21. A yard of fabric costs $12.99. How much will 2 feet cost?

22. Hurricane Katrina dropped about 14 inches of rain over a 48 hour period. How much rain is this per hour? (Round your answer to the nearest tenth.)

23. It takes about 20 minutes to grade a student's paper. How long, in **hours**, does it take to grade papers for a class of 25 people?

24. A doctor sees each of her patients for 25 minutes during a typical appointment. How many patients can she see in a typical $7\frac{1}{2}$ hour day?

25. If a trip between work and home takes 15 minutes each way, how much time will be spent in a 5-day work week traveling back and forth to work? (Assume that at no point does the employee have to go home and come back within the same day.)

Ratio Tables

Student Response Form

Name: _____

Card #	Missing Number?
1	
2	
3	
4	
5	

Ratio Tables

Student Response Form

Name: _____

Card #	Missing Number?
1	
2	
3	
4	
5	

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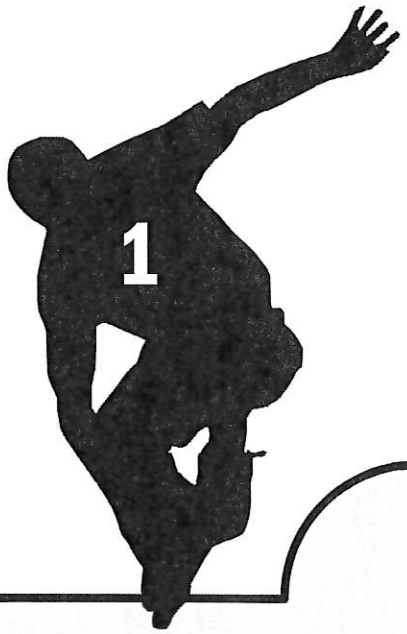
Complete the Ratio Table Task Cards

Complete the Ratio Table

1	4
2	8
3	?
4	16



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Complete the Ratio Table

2	18
4	36
14	126
?	144

Complete the Ratio Table

4	3
8	6
?	12
20	15

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Complete the Ratio Table

5	4
15	12
?	16
25	20

Complete the Ratio Table

2	3
4	6
8	?
18	27

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Name: _____

Multiplying Decimals by 10, 100 & 1,000

The Number Is	Multiply By 10...	Multiply by 100	Multiply By 1,000
2.85			
3.57			
10.84			
67.46			
12.76			
54.38			
87.15			

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Name: _____

Decimal Division Task Cards

I need to complete these 6 tasks:

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task #1

$97.7 \div 10$

task #2

$283.5 \div 100$

task #3

$2.77 \div 100$

task #4

$.76 \div 10$

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task #5

$27.5 \div 10$

task #6

$49.73 \div 100$

task #7

$585.1 \div 100$

task #8

$650.9 \div 10$

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Integers Task Card # 1

One spring, the temperature rose from −5°C to 12°C in 24 hours. How much did the temperature rise in 24 hours?

Integers Task Card # 2

An elevator starts on the ground floor. It goes up 7 floors and then down 9 floors. What floor is it on?

Rational Numbers Task Card # 3

Omar makes a total of $51.75 selling brownies and muffins at a bake sale. If he sells 16 brownies for $2.25 each, how many muffins does he sell at $1.75 each?

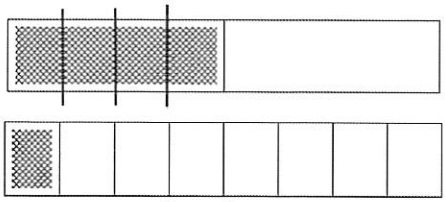
Rational Numbers Task Card # 4

Marilyn lives 3.5 blocks from the library She leaves the library and walks 3.5 blocks before realizing she is walking in the opposite direction from her house. After walking 3.5 blocks back, how far does Marilyn have to walk?

Name: _____ Date: _____

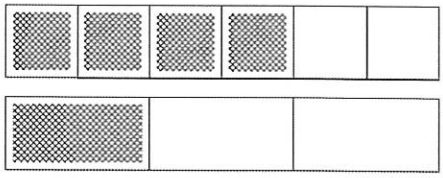
Activity Sheet - "Dividing Fractions from Fraction Bars"

Draw lines on the shaded part of the Fraction Bar, as shown here, to determine how many times the smaller shaded amount fits into the larger shaded amount. Then complete the division equation.



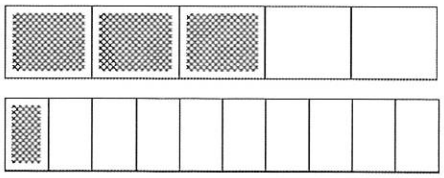
$\frac{1}{2} \div \frac{1}{8} = 4$

a.



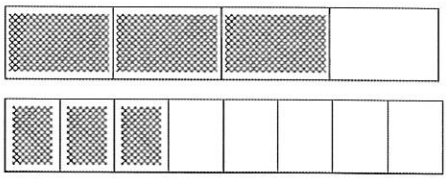
$\frac{4}{6} \div \frac{1}{3} =$

b.



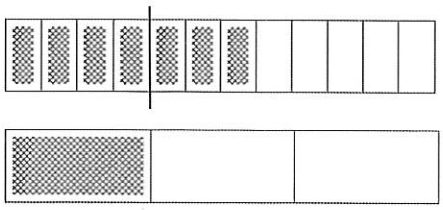
$\frac{3}{5} \div \frac{1}{10} =$

c.



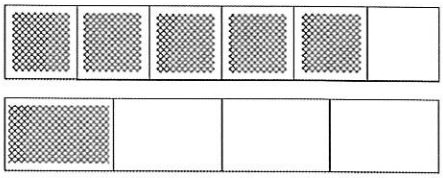
$\frac{3}{4} \div \frac{3}{8} =$

Draw lines on the shaded amount of the bar, as shown below, to determine the approximate number of times the smaller shaded amount "fits into" the larger shaded amount. Then complete the division approximation by writing the closest whole number quotient.



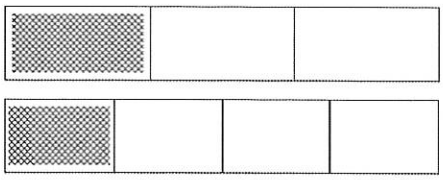
$\frac{7}{12} \div \frac{1}{3} \approx 2$

d.



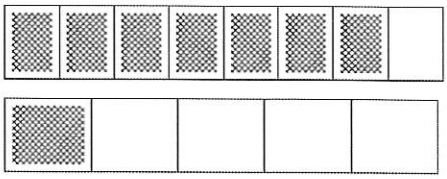
$\frac{5}{6} \div \frac{1}{4} \approx$

e.



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

f.



$\frac{7}{8} \div \frac{1}{5} \approx$