# Week Week MATHEMATICS Grade 6 WEEK 19



#### Probability Pizzazz

Materials: three number cubes The probability that the three cubes will show three different numbers is given by the ratio:

Probability = ways to roll 3 different numbers

total ways to roll the 3 cubes If different numbers must be rolled, there are 6 possibilities for the first cube, 5 possibilities for the second cube, and 4 possibilities for the third cube.

P(3 different numbers) =

 $\frac{6 \cdot 5 \cdot 4}{6 \cdot 6 \cdot 6} = \frac{5}{9} \approx .56 \text{ or } 56\%$ 

Students are to roll the three cubes 10 times each and compile their information. Does the experiment reflect the theoretical probability?

(4.04)



Solve This!

Stephanie weighs 96 pounds and JoAnne weighs 86 pounds. The sum of their weights is twice as much as Lane's weight. Write and solve an equation to determine *w*, Lane's weight.



(5.03)



Terry watches  $\frac{1}{2}$  of a video on Saturday. He

watches another  $\frac{1}{3}$  of the video on Sunday. How much of the video did he watch?

(1.04, 1.07)

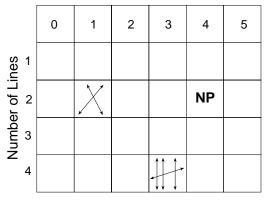


#### Geometry Gems

Complete the chart showing how lines may intersect. If the task is not possible,

write NP in the cell.

Number of Points of Intersection



? = 1 +3 ÷ 4

### Mathematically Speaking

Do squares with the same area have equal perimeters? Do rectangles with the same area have equal perimeters? Explain.

(2.02)

(3.01)

## Keeping Skills Sharp

5.

- 1. Define prime number.
- 2. Replace each box with a number.

  - $\frac{-2 \Box 1 6}{6 4 \Box 0}$
- 3. A circle has a circumference of 30 cm. What is its radius when measured to the nearest tenth of a centimeter?
- 4. When cut out and folded, what solid figure can be made out of this shape?

	: 1
I	

- How many faces are in a triangular prism?
- 6. Which letter does <u>not</u> have a line of symmetry?
   C Z W
- 7. Which is a better buy:
  - 3 for \$1.00 or 2 for \$0.75?
- 8.  $1\frac{3}{4} \times 2\frac{3}{5} =$
- 9. What is the sum of the measures of the angles of a triangle?
- 10. Write 2,642 in words.

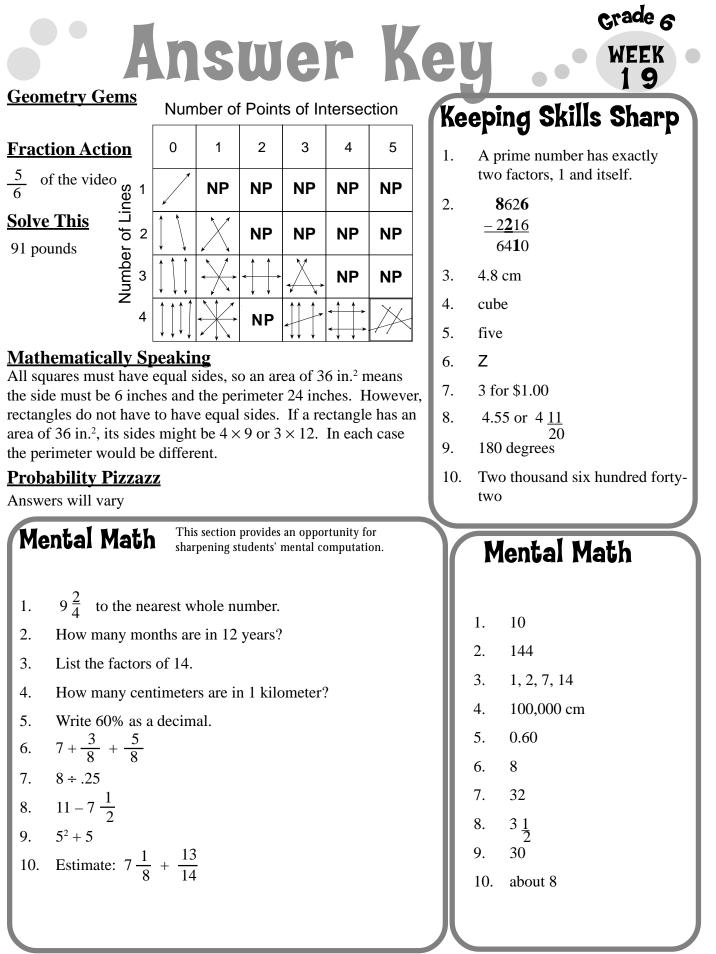
Write answers here:
1
2
3
4
5
6
7
8
9
10

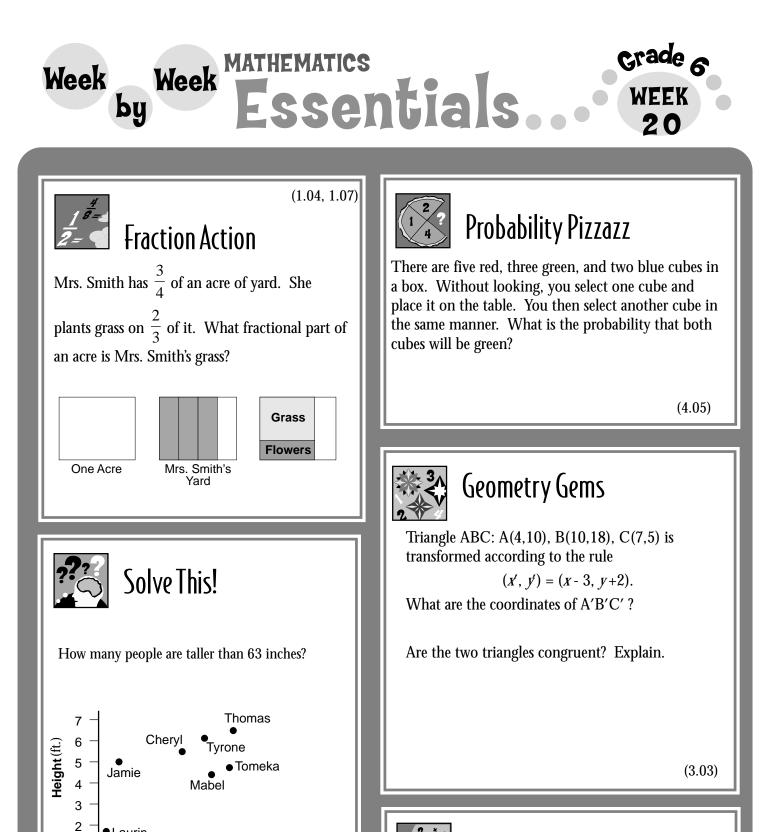
## Mental Math

#### Directions to Students:

Write your answers as the questions are called out. Each question will be repeated only once.

1	6
2	7
3	8
4	9
5	10







If  $R \div S = T$ , is T always less than R? Explain.

(1.04)

(Review)

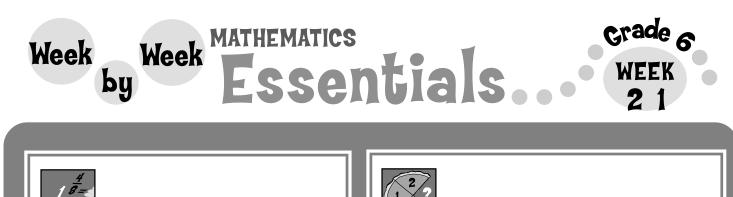
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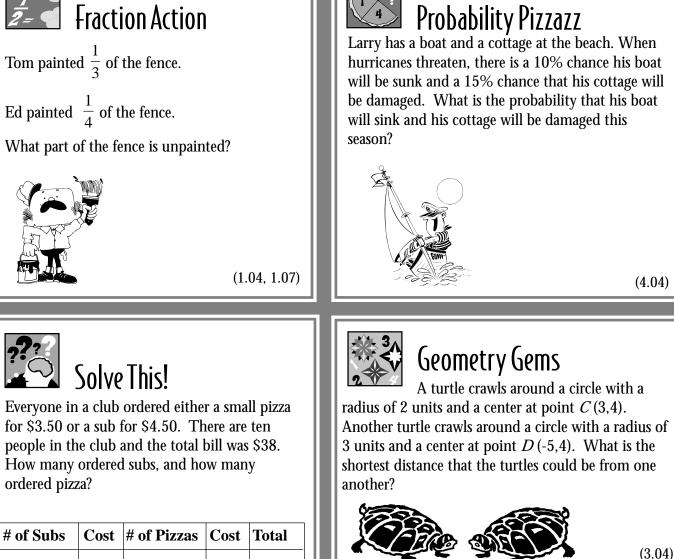
10 20 30 40 50 60 70 Age

1

<b>2</b> 1	Keeping Skills Sh	arp
1.	Solve for <i>W</i> : $422.4 \div 12 = W$	Write answers here:
2.	Robin ordered 6 extra-large pizzas. Each pizza is divided i 14 slices. How many slices of pizza are there altogether?	nto 1
3.	Write $7^2$ in standard form.	2
4.	Write $\frac{1}{3}$ as a decimal.	3
5.	What is 2.1 less than 5.62?	4
6.	Find the area in square feet.	5
	2 feet	6
7.	Write the largest possible number using these digits: 3, 4, 3	5, 6, 7. 7
8.	What is the value of 5 in 100.5?	8.
9.	Draw two squares and shade $1\frac{1}{2}$ of them.	9.
10.	What time will it be $4\frac{1}{2}$ hours from now?	10
3.2		Students: wers as the questions are called out. will be repeated only once.
2	7	
3	8	
4	9	
5	10	

Solve This1.Two people2.Geometry Gems3.	<b>2 O</b> eping Skills Sharp W = 35.2
Solve This1.Two people2.Geometry Gems3.	W = 35.2
Two people2.Geometry Gems3.	
Geometry Gems 3.	84
<u>Geometry Gems</u>	49
A'(1,12), B'(7,20), C'(4,7) 4.	0.33
The triangles are congruent. $5.$	3.52
6.	4 square feet
<b>Fraction Action</b> 7.	76,543
One-half of an acre is planted with grass. 8.	five tenths
9.	answers will vary
<b>Probability Pizzazz</b> 10.	answers will vary
P(green, green) = $\frac{3}{10} \times \frac{2}{9} = \frac{6}{90}$	
<b>Mental Math</b> This section provides an opportunity for sharpening students' mental computation.	Mental Math
1. $300 + 7,000 + 50$	
2. 3,800 - 300 - 200	1. 7,350 9. \$37.50
3. 20 + 60 - 30 - 10	2. 3,300 10. 4
4. 60 + 20 - 40 - 30 + 20	3. 40
5. 6 x 9 x 500	4. 30
6. $5\frac{3}{4} + \frac{3}{4}$	5. 27,000
	6. $6\frac{1}{2}$
	7. $5\frac{2}{5}$
8. $46\frac{5}{8} + 4\frac{5}{8}$	7. <u>5</u>
	8. $51\frac{1}{4}$
10. 12 cups are to 3 quarts as cups are to 1 quart.	4
L 儿	J





0000	0050		
	(1.	04, 1.07)	

61

equation:

Mathematically Speaking

(5.03)

Write and solve a problem that fits the following

2x + 18 = 60

<sup>2</sup> Keeping	Skills Sharp		
<ol> <li>How much is 68 tens?</li> <li>What is the quotient when 18 is divided in the second second</li></ol>	wided by 3?       1         that will make this true?       2         600.       3		
6. $\frac{3}{4}$ of 18.5 is ?	4 5		
7. What is 75% of 120? 8. $\frac{3}{12} \div \frac{1}{3} =$	6 7		
coffee she needs to put in a pot wh	9		
How many scoops will she need to	o make 40 ounces? <sup>10</sup>		
1	6		
2	7		
3 4	9 9		
5	10		

- Answer K	Crade 6 WEEK 2 1
Fraction Action $\frac{5}{12}$ of the fence is unpaintedGeometry Gems3 unitsMathematically SpeakingAnswers will vary.Solve ThisThree ordered subs and seven ordered pizza.Probability Pizzazz $0.10 \ge 0.0150$ or $\frac{10}{100} \ge \frac{150}{100}$	Keeping Skills Sharp         1. $680$ 2. $6$ 3. $80$ ounces         4. $649$ 5. $0.67$ 6. $13.875$ or $13 \frac{7}{8}$ 7. $90$ 8. $\frac{3}{4}$ 9. $11 \frac{5}{6}$ 10.       5 scoops
Mental MathThis section provides an opportunity for sharpening students' mental computation.1. $9 \times 600$ 2. $90 \times 9$ 3. $2,800 \div 70$ 4. $1,800 \div 3$ 5. $6500 + 120 + 40$ 6. Find the greatest common factor of 24 and 40.7. Write $4\frac{5}{6}$ as an improper fraction.8. How many centimeters are in $4\frac{1}{4}$ meters?9. $4$ kilometers = meters10. $9.4$ meters = centimeters	<b>Mental Math</b> 1. $5,400$ 2. $810$ 3. $40$ 4. $600$ 5. $6,660$ 6. $8$ 7. $\frac{29}{6}$ 8. $425$ centimeters9. $4,000$ meters10. $940$