Name _

Give the best answer for each question.

1. The table shows how many hours Juan and Alex worked each day last week.

	HOURS WORKED					
Juan	5	6	7	8	9	
Alex	2	3	4	5	6	

Select the correct statement.

- Each day, Juan worked 3 more hours than Alex.
- Each day, Alex worked 2 fewer hours than Juan.
- Each day, Juan worked 2 times as many hours as Alex.
- \bigcirc Each day, Alex worked $\frac{2}{3}$ as many hours as Juan.
- **2.** Add. Write the answer as a mixed number in simplest form.
 - $\frac{3}{4} =$ $+ \frac{3}{5} =$
- **3.** Subtract using the model. Write the answer in simplest form.



4. Kaylee puts 32 tubes of paint into an organizer. Each section of the organizer holds 5 tubes of paint.

Date

Which bar model correctly represents the fraction $\frac{32}{5}$ as a quotient and remainder for this situation?

0	TOTAL TUBES OF PAINT: 32						
	5	5	5	5	5	5	2
0	тот		IDEC			. 20	
-	5	AL 10	5	5	5	: 3Z	
	5	5	5	5	5	/	ļ
0	T	OTAL	TUB	ES OI	f Pai	NT: 3	32
0	т 6	OTAL 6	TUB	ES OI 6	F PAI 6	NT: 3 6	3
0	T(6	OTAL 6	TUB 6	ES OI	F PAI	NT: 3	3
0	T 6 TOT	OTAL 6 AL TU	TUB 6 JBES	ES OI 6 OF P	F PAI 6 PAINT	NT: 3 6 : 32	3

5. Find the product.

 $\frac{3}{4} \times \frac{1}{5} = \underline{\qquad}$

6. Find the value of *n*.

$$\frac{1}{4} + \frac{3}{5} = n$$

n = _____

- Which multiplication expressions are equivalent to this division problem? Select all that apply.
 - $2 \div \frac{1}{7} = ?$
 - $\bigcirc 2 \times \frac{1}{7} \qquad \bigcirc 7 \times \frac{1}{2}$
 - $\bigcirc 2 \times \frac{7}{1}$ $\bigcirc 7 \times \frac{2}{1}$
 - \bigcirc 2 \times 7
- 8. Find the quotient.
 - 8)5,224

9. Which expression represents the problem?

Add 16 to 6, and then divide by 2.

- $\bigcirc 2 \div 6 + 16 \qquad \bigcirc 2 \div (6 + 16)$
- \bigcirc (6 + 16) \div 2 \bigcirc 6 + 16 \div 2

10. Which expressions are equivalent to 5? Select **all** that apply.

$$\bigcirc$$
 24 ÷ [(7 + 9) ÷ 2] + 2

$$\bigcirc$$
 (3 × 6) ÷ 2 – 5

 \bigcirc (20 ÷ 4 + 2) × [(33 - 8) ÷ 5] ÷ 7

$$\bigcirc$$
 14 - 2 × 5 ÷ 2 + 4 - 8

$$\bigcirc 12 \times 4 - 3 \div 3 + 1$$

11. During May, a baker sells 192 cakes for \$18 each. Use rounding to estimate the total amount of money the baker makes from cakes in May. Then find the actual amount. Show your work.

12. Carolyn measured the lengths in inches of 10 different insects. Use her data to complete the line plot.



Date ___

BEGINNING-OF-YEAR TEST

13. Luisa has \$55 in \$5 bills. How many bills does she have?

_____ bills

14. Complete the equation.

 $352,004,600 \div 10^2 =$

15. Marcia uses ¹/₃ yard of yarn to make a decorative tassel. The tassel has 8 pieces of yarn of equal length. What is the length of each piece of yarn?

_____ yd

16. Use the grid to plot the following points. Then connect them to form a polygon.

Q(1, 1), R(5, 1), S(5, 9), T(1, 9)



17. Evaluate 0.82 - n when n = 0.35.

18. Divide.

0.85 ÷ 5 = _____

19. Ella has a 21.75-pound bag of cat food. Her cats eat 0.75 pound of food every day. How many days' worth of food does she have for her cats?

_____ days

20. Look at the line plot. Complete the sentence.



- **21.** Jim multiplies two fractions that are both greater than zero. Which of these statements is **always** true?
 - If one factor is $\frac{2}{3}$, the product is less than 1.
 - If one factor is $\frac{2}{3}$, the product is less than or equal to 1.
 - \bigcirc If one factor is $\frac{2}{3}$, the product is less than the other factor.
 - If one factor is $\frac{2}{3}$, the product is less than $\frac{2}{3}$.
- 22. Which ordered pair could be the coordinates for a vertex of a rectangle when the other three vertices are located at (2, 1), (2, 6), and (5, 6)?
 - 0 (5, 2)
 - O (5, 1)
 - 0 (2, 5)
 - 0 (1, 5)
- **23.** Each cube that makes up the rectangular prism has a volume of 1 cubic centimeter.



What is the volume of the rectangular prism?

- 24. Crystal has 6 cartons of eggs. Each carton has 12 eggs. She has another 5 eggs in her fridge, but she uses 2 of them for a recipe. Which expression represents the problem?
 - (12 × 6) − 5 + 2
 - (12 × 6) + 5 − 2
 - (12 ÷ 6) − 5 + 2
 - (12 ÷ 6) + 5 − 2

25. Which of the following is equivalent to the product?

 $232,000 \times 10^{3}$

- 2,320,000,000
- 232,000,000
- 23,200,000
- 2,320,000
- **26.** Use the formula to find the volume of the rectangular prism.



$$V = \ell \times w \times h$$

 $V = in.^3$

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_____ cm³

Name		Date BEGINNII		BEGINNING	G-OF-YEAR
27.	 Bill runs 9.65 kilometers in one hour. At this rate, how far can he run in 2.5 hours? 33.775 km 24.125 km 12.15 km 7.15 km 	30.	Look at the data. $1 \frac{3}{4} 2 0 2$ To make a line p interval should yo $O \frac{1}{8} O \frac{1}{4}$	$\frac{1}{4} \frac{1}{2} 1 1$ lot for the d ou use? $\bigcirc \frac{1}{2} \bigcirc$	$0 \frac{1}{2} \frac{1}{4}$ ata, what
28.	Find the difference. \$11.26 - 9.80 \$1.46 \$2.66 \$3.06 \$7.66	31.	Which of the follo to 0.24? Select a 0 0.08 × 3 0 0.8 × 0.3 0 0.08 × 0.03	owing are e II that apply O 8 × 0 O 8 × 0 O 0.8 ×	qual 7. .03 .3 3
29.	Complete the fractions with the numbers 1, 2, 3, 5, and 6 to make a true equation. No number may be used more than once. 1 + 1 = 1 = 1	32.	Match each equa power of 10. $310 \times ? = 3,100$ $2,500 \times ? = 25,0$ $50,100 \div ? = 50$ $42,000 \div ? = 42$	ation with th ,000 000 1	e missing 10 ¹ 10 ² 10 ³ 10 ⁴

- - 33. Divide.

\$ 22)\$368.06

34. Complete to show how to find 23×4.87 using partial products.

 23×4.87

= _____ × 4.87 + _____ × 4.87

=_____

= _____ + _____

35. There are 24 rows in Mia's section at the basketball stadium with 15 seats in each row. How many seats are there altogether?

____ seats

36. Subtract.

 $-\frac{\frac{5}{7}}{\frac{1}{2}}$

37. Complete the division equation.



38. Fill in the multiplication problem with partial products from the list. Then find the product.

768	1,920	7,680	19,200
384 ×	52 =		

39. A class of 22 students visits the library. Only 4 children fit at each table.

Complete the statement.

The class will need _____ tables.

They can fill _____ tables

completely, plus another table for the

remaining _____ students.