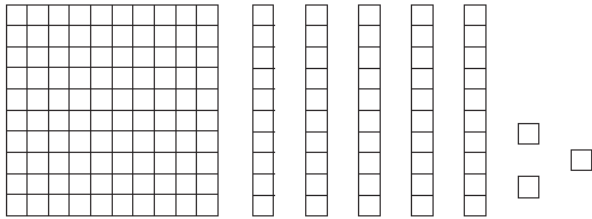


Grade 3 Math Authentic OAT Questions – 2005, 2006 & 2007 Administration; Practice & Half-Length Test Questions

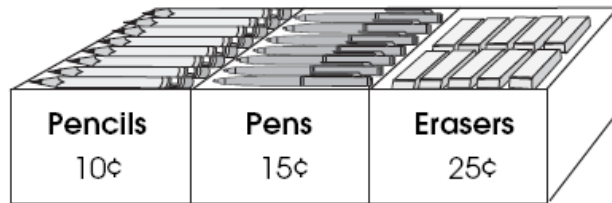
Number, Number Sense and Operations Standard

1. Which number is shown by the blocks?



- ☐ A. 153
- ☐ B. 351
- ☐ C. 513
2. Alicia has 90 stickers. She gives all of the stickers to 10 of her friends. Each friend gets the same number of stickers. Which number sentence shows how many stickers each friend gets?
- ☐ A. $90 + 10 = 100$
- ☐ B. $90 \times 10 = 900$
- ☐ C. $90 \div 10 = 9$
3. Callie has 21 stuffed animals. Her sister has 24 stuffed animals. Which pair of numbers could best be used to estimate the total number of stuffed animals?
- ☐ A. 10 and 20
- ☐ B. 20 and 20
- ☐ C. 30 and 30

4. The school store sells pencils, pens and erasers. The picture shows the cost of each of these items.



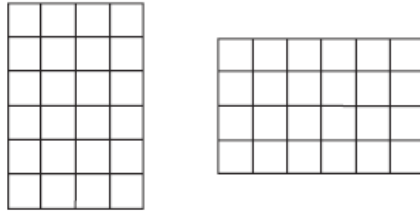
Becky bought 2 pencils, 5 pens and 2 erasers. How much money did Becky spend? _____

Show or explain your answer using pictures, words or numbers.

The next week Becky spent 85¢ in the store. Use the table below to show how she could spend exactly 85¢.

Item	Number	Total Cost
Pencils		
Pens		
Erasers		
		85¢

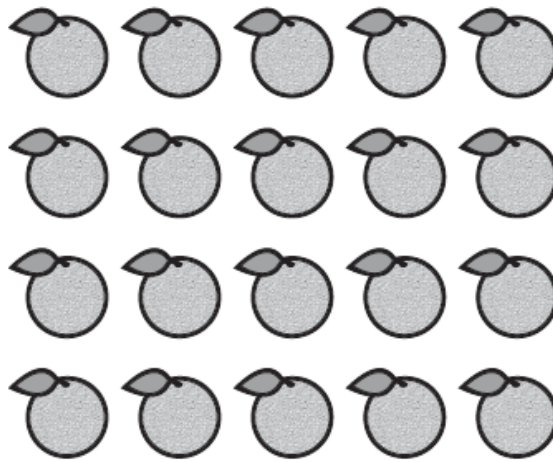
5. The rectangular arrays show a number fact.



Which number fact do they show?

- ☐ A. $4 \times 6 = 6 \times 4$
 - ☐ B. $4 + 6 = 6 + 4$
 - ☐ C. $4 \div 6 = 6 \div 4$
6. Find the difference. $135 - 22$
- ☐ A. 113
 - ☐ B. 132
 - ☐ C. 157

7. Six children share 20 oranges. Each child gets the same number of oranges.



How many oranges will each child get? _____

How many oranges will be left over? _____

Show or explain your answers using pictures, words or numbers.

8. What coins could you receive for change if you use a \$1.00 bill to pay for something that costs \$0.59?



9. Martin has three boxes of erasers. Each box holds 12 erasers. How many erasers does he have in all?

- ☐ A. 4
☐ B. 15
☐ C. 36

10. Mrs. Porter's class collected 325 box tops. Mr. Smith's class collected 234. How many box tops were collected?

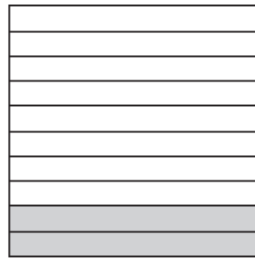
- ☐ A. 559
☐ B. 569
☐ C. 669

11. What fraction of these stars is shaded?



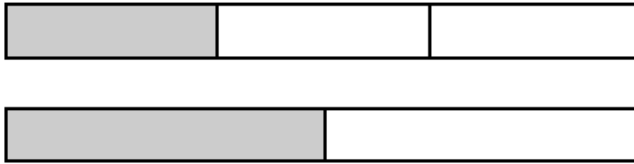
- ☐ A. $\frac{1}{3}$
- ☐ B. $\frac{2}{5}$
- ☐ C. $\frac{3}{5}$

12. Which decimal is shown by the shaded part of the figure?



- ☐ A. 0.2
- ☐ B. 0.3
- ☐ C. 0.8

13. Look at the picture below.



Which is true?

- ☐ A. $\frac{1}{3}$ is less than $\frac{1}{2}$
- ☐ B. $\frac{1}{3}$ is greater than $\frac{1}{2}$
- ☐ C. $\frac{1}{3}$ is equal to $\frac{1}{2}$
14. Is 300 a reasonable estimate for $726 - 192$? _____

Show or explain why or why not.

15. Which is another way of writing $6 + 6 + 6 + 6 + 6$?

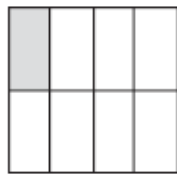
- ☐ A. 5×6
- ☐ B. 5×5
- ☐ C. 6×4

16. Carole has 7 marbles. Ezra gives her 3 marbles. Tonya gave Carole 2 more marbles. The total number of marbles that Carole has can be shown by $(7 + 3) + 2$.

This is the same as:

- ☐ A. $7 + (3 + 2)$
- ☐ B. $(7 + 3) + (7 + 2)$
- ☐ C. $(7 + 3) + (3 + 2)$

Directions: Use the fraction models to answer question 2.



17. Which set of fractions is in order from smallest to largest?

- ☐ A. $\frac{1}{8}, \frac{1}{4}, \frac{1}{2}$
- ☐ B. $\frac{1}{2}, \frac{1}{8}, \frac{1}{4}$
- ☐ C. $\frac{1}{4}, \frac{1}{8}, \frac{1}{2}$

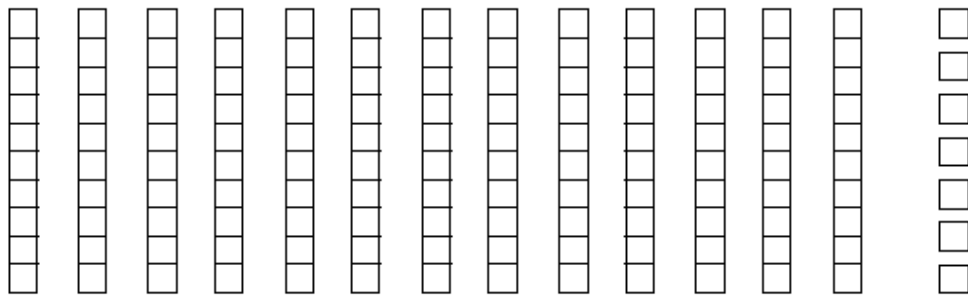
18. Which is a reasonable estimate for the sum of 312 and 105?

☐ A. 400

☐ B. 500

☐ C. 600

19. Which number is shown by the blocks?



☐ A. 20

☐ B. 83

☐ C. 137

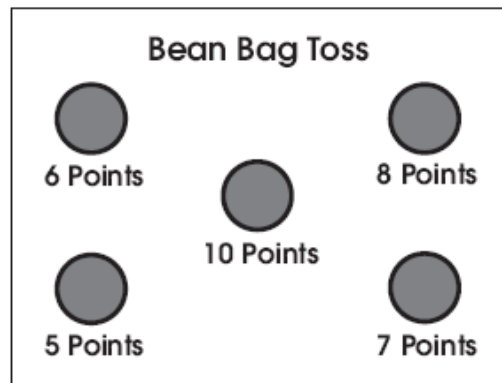
20. Mike bought four movie tickets. Each ticket cost \$7. Which number sentence shows how much money Mike spent?

☐ A. $4 + \$7 = \11

☐ B. $4 \times \$7 = \28

☐ C. $\$7 - 4 = \3

21. In the Bean Bag Toss game a player can score the points shown.



Max tossed three bean bags in the same hole and two bean bags in a second hole.

What is the highest score that Max could receive for these five tosses? _____

Show how you found your answer using pictures, words or numbers.

22. Five children share 27 crayons. Each child gets the same number of crayons.

How many crayons will each child get? _____

How many crayons will be left over? _____

Show or explain your answer using pictures, words or numbers.

23. Which has a product of 28?

- ☐ A. 5×8
- ☐ B. 6×6
- ☐ C. 7×4

24. This menu shows the prices at a Snack Bar.

Menu	
Hot Dog\$2	Drink \$1
Hamburger\$3	Medium Fries \$1
Cheeseburger.....\$4	Large Fries\$2

How much money will Lisa need to buy a cheeseburger, a drink and large fries? _____

Show how you got your answer using pictures, words or numbers.

25. Jack had 10 pencils. He sharpened four of his pencils. What fraction of the pencils did he sharpen?

☐ A. $\frac{4}{14}$

☐ B. $\frac{4}{10}$

☐ C. $\frac{4}{6}$