

Dear Parents/Guardians:

Math can be seen in the most basic of daily activities. Children problem-solve from the moment they wake to the time they fall asleep. Math is a critical part of your child's education preparing them for the 'real world' outside of school. As we continue to incorporate the new Common Core State Standards this year, it is vital all students coming to 6th grade have their basic multiplication and division facts memorized. Please take any opportunity you can during the summer to review these facts with your children. (specifically 0-12's tables)

The following math packet is required to be completed prior to the start of school on August 27, 2015. Your child must complete this packet and return it to their math teacher no later than **Friday, August 28th**. This packet will be recorded as one of your child's first grades for the marking term.

We also encourage your child to try some math web-sites during the summer. Practice makes perfect!

FASTTMATH.com
<https://www.khanacademy.org>
Freerice.com (math section)
Ratioblaster.com
Aplusmath.com
AAAmath.com

Thank you for your cooperation in making your child's education a success.

Sincerely,

The Middle School Math Department

INVENTORY TEST

Read each question.
Choose the answer.

1. $8 + 6 = ?$

- A. 14 B. 11 C. 15 D. not here

2. $15 - 7 = ?$

- A. 6 B. 9 C. 8 D. not here

3. Which number sentence belongs to the same family of facts?

$13 - 7 = 6$

$7 + 6 = 13$

- A. $6 + 6 = 12$ B. $13 - 6 = 7$
C. $7 + 7 = 14$ D. not here

4. Mark needs 17 can labels to win a prize. He has 9 labels. How many more does he need?

- A. 7 B. 8 C. 9 D. not here

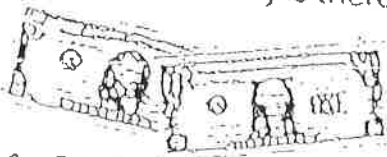
5. Which choice shows the expanded form for 645?

- A. $6 + 4 + 5$ B. $600 + 40 + 5$
C. $60 + 4 + 5$ D. not here

6. Which digit is in the thousands place in the number 4,297?

- A. 2 B. 4 C. 9 D. not here

7. How much money is there?



- A. \$2.10 B. \$5.10
C. \$6.10 D. not here

8. 85

$+ 47$

A. 137

C. 132

B. 122

D. not here

9. 873

$+ 549$

A. 1,312

C. 1,432

B. 1,422

D. not here

10. 682

$- 467$

A. 225

C. 205

B. 215

D. not here

11. $6 \times 1 = ?$

A. 6

C. 1

B. 0

D. not here

12. $5 \overline{)35}$

A. 7

C. 6

B. 8

D. not here

13. $72 \div 9 = ?$

A. 7

C. 8

B. 9

D. not here

14. There are 63 eggs to color. There are 9 people who want to color them. Each person gets the same number of eggs. How many eggs does each person get?

A. 7

C. 8




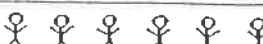

B. 9

D. not here

name _____

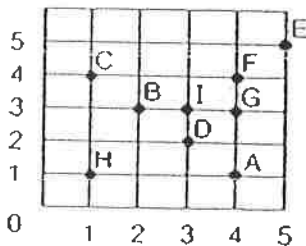
INVENTORY TEST

Use the pictograph below to answer questions 15 and 16.

TRAIL USE BY HIKERS	
Each  stands for 10 hikers.	
Ridge Trail	
Meadow Trail	
Brook Trail	
Forest Trail	

15. How many hikers used the Ridge Trail?
 A. 4 B. 20 C. 40 D. not here
16. Which trail was used by the greatest number of hikers?
 A. Meadow Trail B. Ridge Trail
 C. Forest Trail D. not here

Use the grid below to answer questions 17 and 18.



17. Which ordered pair tells the location of point C?
 A. (4, 1) B. (1, 4)
 C. (4, 4) D. not here
18. Which letter is at point (2, 3)?
 A. D B. B
 C. I D. not here

19.
$$\begin{array}{r} 425 \\ \times 7 \\ \hline \end{array}$$

 A. 2,845 B. 3,045
 C. 2,975 D. not here

20. $3 \times 26 = ?$
 A. 68 B. 64
 C. 84 D. not here

21.
$$\begin{array}{r} 2,463 \\ \times 8 \\ \hline \end{array}$$

 A. 19,704 B. 18,976
 C. 16,284 D. not here

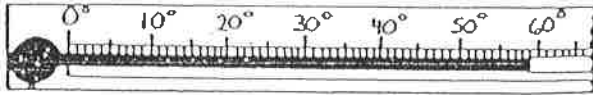
22. Ben and Sally make punch for parties. For every 2 cups of coconut milk, they add 6 cups of pineapple juice. How many cups of pineapple juice are used with 4 cups of coconut milk?

Coconut milk	2	4	6	8
Pineapple juice	6	?	18	24

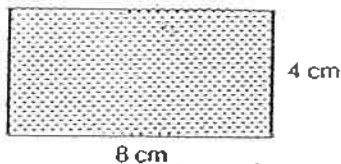
- A. 7 B. 12
 C. 4 D. not here
23. $7 \overline{) 946}$
 A. 135 r1 B. 135
 C. 106 r4 D. not here
24. $5,903 \div 4 = ?$
 A. 148 r1 B. 1,460 r3
 C. 1,475 r3 D. not here
25. $4 \overline{) \$6.24}$
 A. \$1.66 B. \$1.06
 C. \$1.56 D. not here
26. $6 \overline{) 2,400}$
 A. 4 B. 400
 C. 40 D. not here

INVENTORY TEST

27. What is the temperature on the thermometer?



- A. 59°F B. 60°F
C. 55°F D. not here
28. 6 ft = ? yd
- A. 2 B. 3
C. 1 D. not here
29. What is the area of the figure in square centimeters?



- A. 12 sq cm B. 20 sq cm
C. 32 sq cm D. not here
30. Angela buys movie tickets for everyone in the family. Each ticket costs \$2.00. What is the total cost? What other information do you need to solve the problem?
- A. What time the movie starts
B. How many members are in her family
C. How much each ticket costs
D. not here

31. $\frac{1}{5}$ of 20 = ?

- A. 5 B. 10
C. 4 D. not here

32. $\frac{26}{4}$ = ?

- A. $7\frac{1}{2}$ B. $6\frac{1}{4}$
C. 6 D. not here

33. $5\frac{2}{6}$

+ $3\frac{3}{6}$

A. $9\frac{4}{6}$

B. $8\frac{5}{6}$

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

D. not here

34. 47

× 25

A. 1,075

B. 1,045

C. 1,175

D. not here

35. \$6.42

× 58

A. \$372.36

B. \$382.36

C. \$348.26

D. not here

36. Every day for 4 weeks, Jason reads for 30 minutes. How many hours does he spend reading in all?

A. 14

B. 2

C. 28

D. not here

37. $61 \overline{) 372}$

A. 6 r6

B. 5 r7

C. 6 r12

D. not here

38. $55 \overline{) 441}$

A. 8 r1

B. 7 r1

C. 8

D. not here

39. $21 \overline{) \$9.66}$

A. \$4.60

B. \$0.46

C. \$46

D. not here

name _____

INVENTORY TEST

10. Carol bought a case of marbles for \$9.84. There are 12 bags in the case. How much does each bag of marbles cost? Which number sentence would you use to solve the problem?

- A. $\$9.84 + 12 = \underline{\quad ? \quad}$
- B. $\$9.84 \times 12 = \underline{\quad ? \quad}$
- C. $\$9.84 - 12 = \underline{\quad ? \quad}$
- D. not here

11. Which decimal is the same as $17 \frac{4}{10}$?

- A. 17.10
- B. 17.4
- C. 17.04
- D. not here

12. Which decimal is the same as seven and three-hundredths?

- A. 7.300
- B. 7.30
- C. 7.03
- D. not here

13. Which sign is missing?

- $5.73 \bigcirc 5.6$
- A. >
 - B. =
 - C. <
 - D. not here

14. Which sign is missing?

- $4.9 \bigcirc 4.98$
- A. <
 - B. >
 - C. =
 - D. not here

$$\begin{array}{r} 43.92 \\ + 7.83 \\ \hline \end{array}$$

- A. 50.75
- B. 51.75
- C. 40.75
- D. not here

46. What is the name of the figure?

- A. octagon
- B. hexagon
- C. quadrilateral
- D. not here

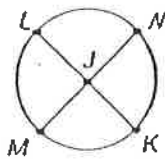


Which figure is congruent to the figure above?

- A.
- B.
- C.
- D. not here

48. What is a radius of the circle?

- A. \overline{LK}
- B. \overline{NM}
- C. \overline{KJ}
- D. not here

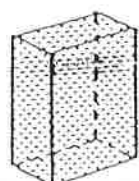


49. Which figure shows a line of symmetry?

- A.
- B.
- C.
- D. not here

50. Which is the name of the figure?

- A. pyramid
- B. cone
- C. cylinder



1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of names and addresses of the members of the committee.

3. The third part of the document is a list of names and addresses of the members of the committee.

4. The fourth part of the document is a list of names and addresses of the members of the committee.

5. The fifth part of the document is a list of names and addresses of the members of the committee.

6. The sixth part of the document is a list of names and addresses of the members of the committee.

7. The seventh part of the document is a list of names and addresses of the members of the committee.

8. The eighth part of the document is a list of names and addresses of the members of the committee.

9. The ninth part of the document is a list of names and addresses of the members of the committee.

10. The tenth part of the document is a list of names and addresses of the members of the committee.

Sample Item 6-5 (Numerical): Feeding the Horses

Ben's barn is the home for two horses and one pony. The chart below shows how much hay these animals eat each day:

Large horse	1 ½ bales of hay per day
Small horse	1 bale of hay per day
Pony	½ a bale of hay per day

How many bales of hay should Ben purchase for a 30-day supply for his three animals?

If hay costs \$1.25 per bale, how much will the 30-day supply cost?

Show or explain how you arrived at your answer.

Sample Item 6-4 (Spatial): The Jewelry Display

A jewelry store displays some of the items it sells in a 3 by 6 rectangular display box. The store owner wants to display several of each of the following items that the store sells:

- Gold bracelets (G) that cost \$8 each
- Silver necklaces (S) that cost \$6 each
- Copper pins (C) that cost \$9 each
- Pairs of wire earrings (E) that cost \$4 each pair

The display must meet the following conditions:

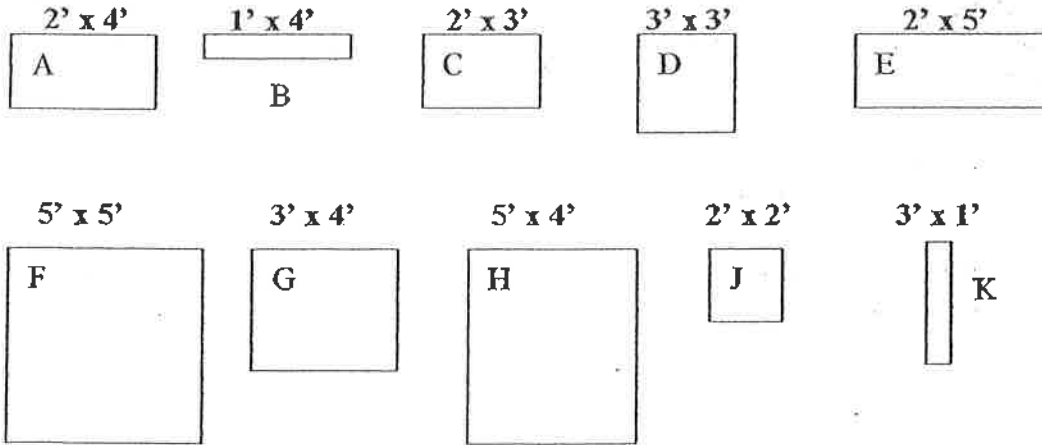
- There are at least two of each item;
- The total cost of the items in the display is more than \$120; and
- No two display boxes that share a side can have the same item.

Show how the jewelry can be displayed in the 18 display boxes and show the total cost of the items in the display.

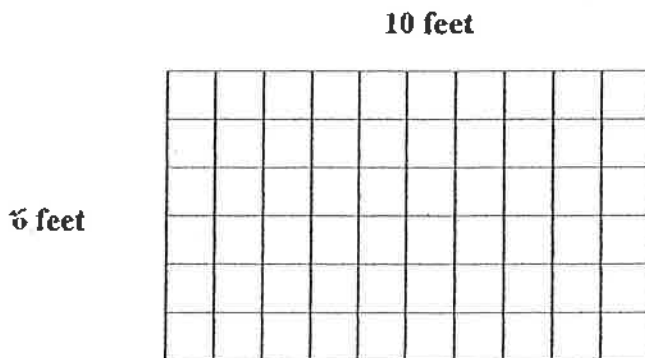
TOTAL COST OF THE ITEMS DISPLAYED _____

Sample Item 6-7 (Spatial): Making a Quilt

A quilt maker has the 10 scraps of material shown below:



Draw on the grid below to show how the quilt maker could use some of these pieces to complete a section of a quilt that is $6' \times 10'$. Label each piece with its letter.



Sample Item 6-8 (Statistical): A Day at the Science Center

The brochure for the City Science Center describes the following activities at the museum:

Demonstrations:

Gravity on the Moon – 15 minutes at 10:00, 11:30 and 1:00

Physics of Light – 20 minutes at 10:30, 12:30 and 1:30

Lectures:

Famous Scientists – 30 minutes at 11:00 and 2:00

The DNA mystery – 15 minutes at 9:30 and 11:00

Movies:

Volcanoes – 45 minutes at 9:15 and 2:15

Whales and Dolphins – 25 minutes at noon and 1:30

Exhibits:

Space Travel

Dinosaurs

Energy

Use the information above, including taking a 45 minute lunch break, to plan a day at the science center that includes at least 2 hours in the exhibits and at least one demonstration, one lecture and one movie. Complete a schedule that shows your plan.

TIME	ACTIVITY
9:00	Arrive at the science center
	Lunch
3:00	Depart from Science Center