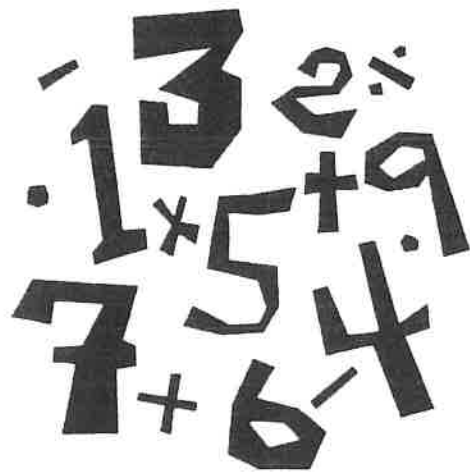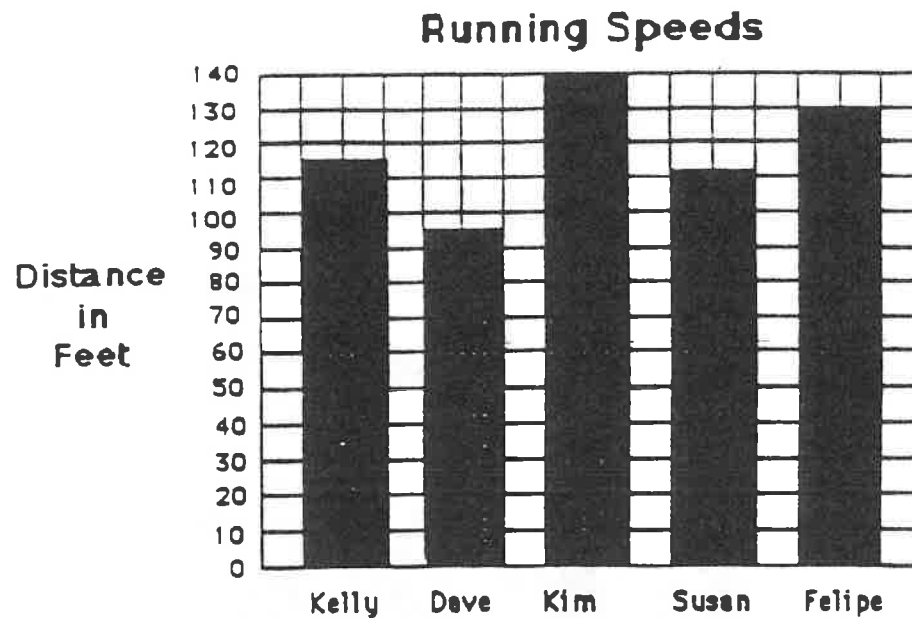# Math'maniacs

PROBLEM SOLVING

I.S.A.T. Preparation Materials
For Third Grade

Student name _____
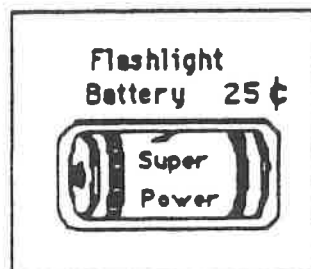
Parent Signature _____

1. I used to run slower than Kelly, but now I don't. Next year I hope I'm faster than Kim. Who am I?

Running Speeds

Distance in Feet
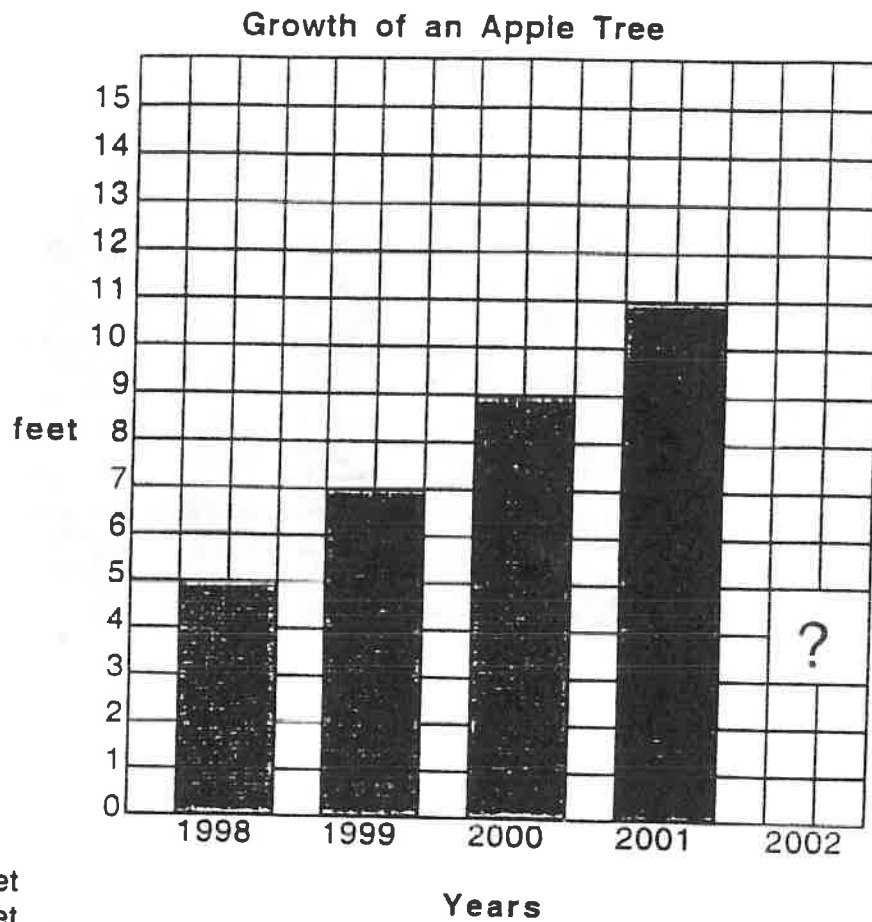
Kelly	Dave	Kim	Susan	Felipe

A. Felipe
B. Susan
C. Kelly
D. Dave

2. If you have $1 in your pocket, do you have enough money to buy 3 flashlight batteries?

Flashlight
Battery   25¢

Super
Power

A. You have exactly enough money.
B. You need to know more information.
C. You do not have enough money.
D. You will have change.

3. This bar graph shows the growth in feet of an apple tree. What do you predict the growth will be in 2002?

Growth of an Apple Tree

A. 10 feet
B. 11 feet
C. 13 feet
D. 12 feet

4. On Monday a magic plant is 2 cm high. By Tuesday the plant will double its height and be 4 cm high. Each day the plant will double its height from the day before. How high will the plant be on Friday? (Hint: Look for a pattern.)
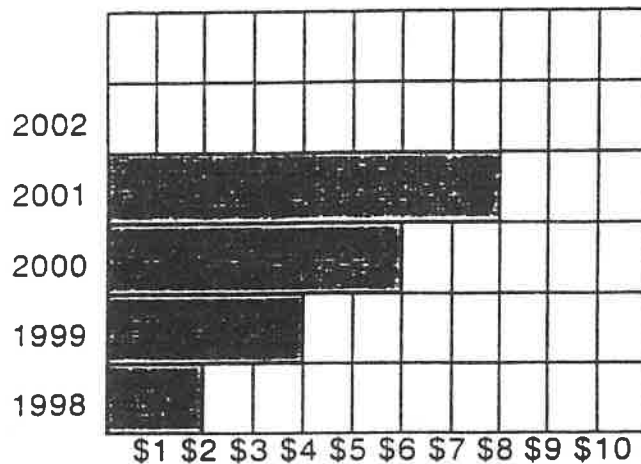
A. 10 cm
B. 8 cm
C. 6 cm
D. 32 cm

5. The store sold 5 pencils for 3 cents each. They made 15 cents. If they sold the pencils for 5 cents each now much money would they make?

A. 5 ¢
B. 8 ¢
C. 28 ¢
D. 25 ¢

6. Looking at how the cost of theater tickets has gone up from 1998 to 2001, what would you estimate the cost of the tickets to be for 2002?

Cost of Theater Tickets

A. $7

B. $9

C. $10

D. $12

7. You buy a toy for $1.75. You give the clerk $5.00. How many dollar bills do you get back in change?

A. $4
B. $3
C. $5
D. $1

8. Pat has 2 dogs. Sue has 3 cats. Mary has a bird. How many pets do they have all together?

A. 5
B. 4
C. 3
D. 6

9. Mark has 15 cats. Tony has 7 cats. Nancy has 6 cats and 4 dogs.

How many cats do Tony and Nancy have?

A. 10
B. 28
C. 11
D. 13

10. Joe is the older brother of Sara.

If Sara is 8, how old is her brother?

A. 5
B. 12
C. 6
D. 7

11. Joe read this word problem.
There are 14 geese, 12 ducks, 2 pigs, and 8 cattle on a farm.
The farm is 8 miles from town. How many animals are on
the farm?

What information does Joe NOT need to solve the problem?

A.   14 geese
B.   12 ducks
C.   2 pigs
D.   8 miles

12. Scott went to the store at 5:00. He bought 6 books.

What time did he get home?

A.   5:30
B.   5:15
C.   6:00
D.   Not enough information is given to answer the question.

13. Tina's baseball team made 7 runs and then made 4 more.

What question could you ask?

A.   How many runs did they make in all?
B.   Who won the game?
C.   What is the difference?
D.   Not enough information is given in the problem to ask a
     question.

14. Paula gets $2.00 a week for allowance.
    Her brother Jeff gets $4.00 a week.

A.   Paula gets more money than Jeff.
B.   Jeff gets more money than Paula.
C.   Paula and Jeff get the same amount of money.
D.   Jeff gets less money than Paula.

15. Donna picked 26 apples. She gave 9 to a friend.

    How many apples does she have left? Choose the correct
    operation to answer the question.

A.   add
B.   subtract
C.   multiply
D.   divide

16. Cheryl bounced the ball 134 times before lunch and 287
    times after lunch.

    How would you find how many times she bounced the ball?

A.   add
B.   subtract
C.   multiply
D.   divide

17. Tess has $3.00 for candy bars. Candy bars are 2 for a dollar.

    How many candy bars can she get?

A.   2
B.   5
C.   10
D.   6

18. A classroom has 24 desks. There are 6 desks in each row. How many rows are there?

Which number model shows the problem?

A.   24 - 4 = 20
B.   4 + 24 = 28
C.   24 ÷ 6 = 4
D.   24 ÷ 6 = 3

19. Jane went shopping for birthday gifts for her twin brothers, John and Joe. She had $10 when she left to go shopping and $3 when she returned.

What 2 gifts did she buy?

GIFT	COST
Baseball	$6
Soccer ball	$2
Racing car	$4
Glove	$5

A.   baseball and soccer ball
B.   glove and racing car
C.   soccer ball and glove
D.   racing car and glove

20. There are 15 pennies. Three students share their pennies equally. How many pennies will each student get?

A. 12
B. 45
C. 18
D. 5

21. There are 7 sea turtles. Each sea turtle has 4 legs. How many legs do the turtles have all together?

Which array shows a model for this problem?

A.
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*******
*******
*******
*******
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B.
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****
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C.
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*******
*******
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D.
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*******
*******
*******
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22. A bag contains 10 marbles. How many marbles are in 6 bags?

A. 60
B. 600
C. 16
D. 106

23. Gary filled 5 balloons. Sue filled 7 balloons. Their cat broke 3 balloons. How many balloons did they have for the party?

A. 15
B. 12
C. 10
D. none of the above

24. Jane had 28 dolls in her collection. For her birthday, she received 13 more dolls.

How many dolls does she have now?

A. 5
B. 15
C. 31
D. 41

25. Sue and her brother collect toy cars. Sue has 54 cars and her brother has 19.

How many cars do they have all together?

A. 35
B. 73
C. 63
D. none of the above

26 There were 19 goldfish all together. Luis took 4 goldfish and John took 6 goldfish. How many goldfish were left?

A.   2
B.   13
C.   9
D.   15

27.   John has 367 stamps in his collection. His uncle gave him some more stamps. Now he has 462 stamps.

How many stamps did he receive from his uncle?

A.   95
B.   105
C.   195
D.   829