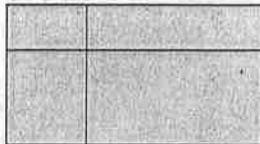# MATH MADNESS - GRADE 2

1) Henry and Mike have 12 pencils each. After using up the same number of pencils, Henry has 3 pencils left. How many pencils does Mike have left?
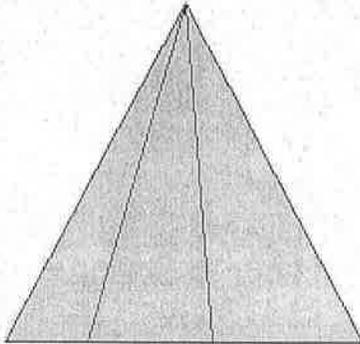
2) What do the following letters have in common?
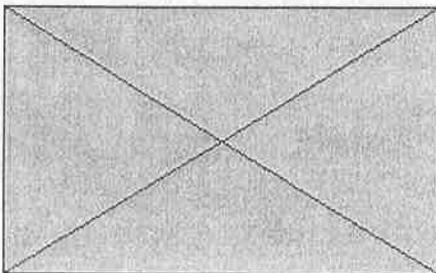
Y M A O T U V X

3) How many rectangles are there in the following drawing?

4) How many triangles are there in the following drawing?

5) How many triangles are there in the following drawing?

6) The three McMath sisters Amy, Betty and Cindy wear different color skirts to school. Their skirt colors are red, blue and yellow. Amy's skirt is not red and not blue. Betty's skirt is not blue. What color of skirt does each girl have on?
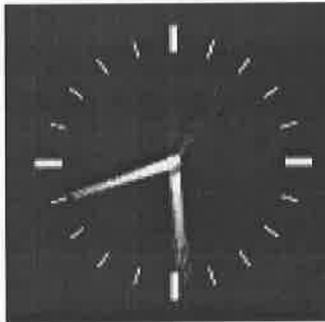
7) Calculate the following:
    a) $999 + 99 + 2 =$
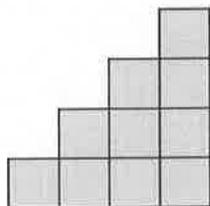   b) $998 + 998 + 4 + 9 + 9 =$

8) Three kids eat 1 apple each at the same time. It took them 3 minutes to eat them. How many minutes does it take for 6 kids to finish eating 6 apples? (Each kid eats 1 apple.)

9) José likes to skip stones at the local pond. He collected 15 rocks and separated them into 5 piles. Each pile has a different number of rocks. How many rocks are there in each pile?

10) When the second hand on a clock turns clockwise 1 full round, how many minutes have passed?

11) Inspect the following pattern. More squares are added to the right following the same pattern until the last column is 9 squares tall. How many squares are there totally?

12) Inspect the number sequence. Which number does **NOT** fit the sequence?
      a) 10, 13, 15, 19, 22, 25
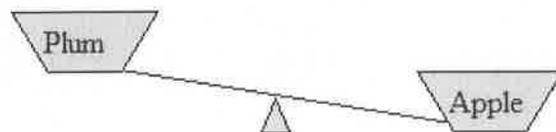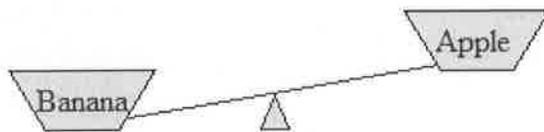   b) 2, 5, 10, 14, 18, 22, 26, 30

13) Use the digits 1, 3, and 5 to form 3-digit numbers. Do not use the same digit more than once in any 3-digit numbers. (a) How many 3-digit numbers can you make? (b) What is the third largest number?

14) Find the sequence and fill in the blanks: *1, 2, 3, 5, 8,* ___, ___

15) Karen and Deborah had the same number of pens. Karen gave Deborah 6 pens. How many more pens does Deborah have than Karen does?

16) The following diagrams represent fruits on balances. Which fruit is the heaviest? Which fruit is the lightest?
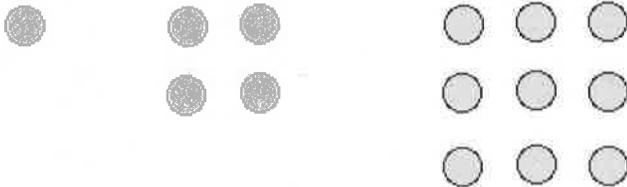
17) What is the time difference between 6:40 am and 10:40 am on the same day?

18) Inspect the following patterns. How many circles should there be in the 4ᵗʰ group?

19) Chuck has 4 chickens and 4 cats. How many legs are there in all?

20) Add +, - or x signs to make the equations work.

2 _ 3 _ 9 = 14

MATH MADNESS - GRADE 2

Student: ANSWER KEY

1) Henry and Mike have 12 pencils each. After using up the same number of pencils, Henry has 3 pencils left. How many pencils does Mike have left?

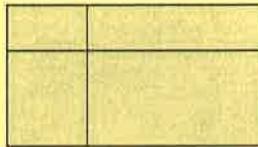3 - because the word "same" means "the same amount."

2) What do the following letters have in common?
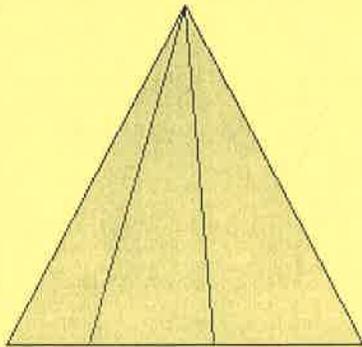
Y M A O T U V X

All are capitals.

They are all symmetrical on the vertical axis.

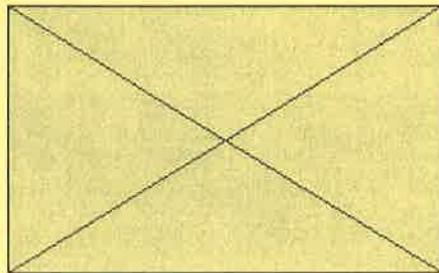3) How many rectangles are there in the following drawing?

Nine.

4) How many triangles are there in the following drawing?

Six.

5) How many triangles are there in the following drawing?

Eight.

6) The three McMath sisters Amy, Betty and Cindy wear different color skirts to school. Their skirt colors are red, blue and yellow. Amy's skirt is not red and not blue. Betty's skirt is not blue. What color of skirt does each girl have on?

Amy wears yellow. Betty wears red. Cindy wears blue.

7) Calculate the following:
   a) $999 + 99 + 2 =$
   b) $998 + 998 + 4 + 9 + 9 =$

a) $999 + 99 + 2 = 999 + 1 + 99 + 1 = 1000 + 100 = 1100$

b) $998 + 998 + 4 + 9 + 9 = 998 + 2 + 998 + 2 + 18 = 2018$

8) Three kids eat 1 apple each at the same time. It took them 3 minutes to eat them. How many minutes does it take for 6 kids to finish eating 6 apples? (Each kid eats 1 apple.)

3 minutes

9) José likes to skip stones at the local pond. He collected 15 rocks and separated them into 5 piles. Each pile has a different number of rocks. How many rocks are there in each pile?
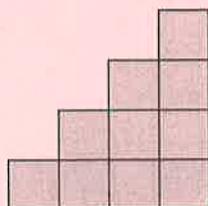
1, 2, 3, 4, 5

10) When the second hand on a clock turns clockwise 1 full round, how many minutes have passed?

1 minute

11) Inspect the following pattern. More squares are added to the right following the same pattern until the last column is 9 squares tall. How many squares are there totally?

$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 = 45$

12) Inspect the number sequence. Which number does **NOT** fit the sequence?
      a) 10, 13, 15, 19, 22, 25
      b) 2, 5, 10, 14, 18, 22, 26, 30

a) 10, 13, **16**, 19, 22, 25
b) 2, **6**, 10, 14, 18, 22, 26, 30

13) Use the digits 1, 3, and 5 to form 3-digit numbers. Do not use the same digit more than once in any 3-digit numbers. (a) How many 3-digit numbers can you make? (b) What is the third largest number?

14) Find the sequence and fill in the blanks: *1, 2, 3, 5, 8, ___, ___*
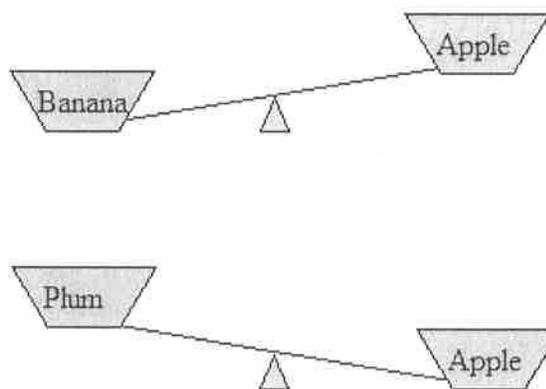
1, 2, 3, 5, 8, 13, 21
Each number (except the first 2 numbers) is the sum of the previous 2 numbers.

15) Karen and Deborah had the same number of pens. Karen gave Deborah 6 pens. How many more pens does Deborah have than Karen does?
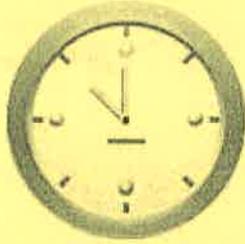
$12 = 6 + 6$

16) The following diagrams represent fruits on balances. Which fruit is the heaviest? Which fruit is the lightest?
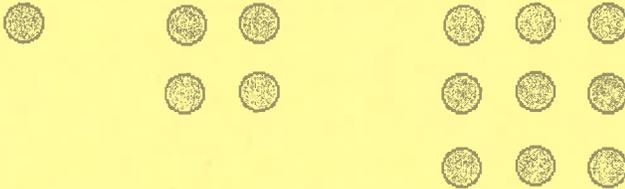
Banana is the heaviest. Plum is the lightest.

17) What is the time difference between 6:40 am and 10:40 am on the same day?

4 hours

18) Inspect the following patterns. How many circles should there be in the 4th group?

16 circles

19) Chuck has 4 chickens and 4 cats. How many legs are there in all?

20 legs

20) Add +, - or x signs to make the equations work.

2 _ 3 _ 9 = 14

2 + 3 + 9 = 14