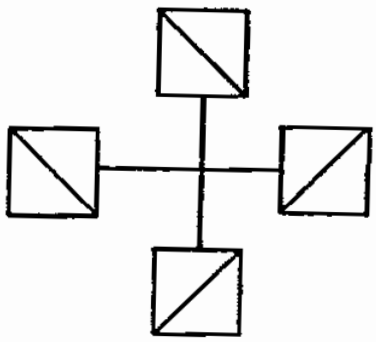
Special Problems

Name _____



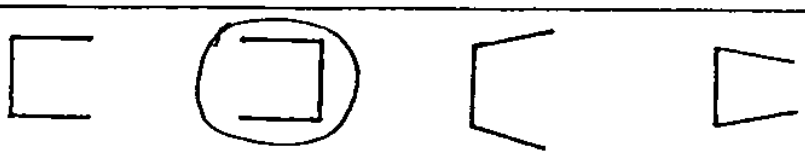
Orange Level

X2

Which Figure is Different

Sample 1

Sample 2

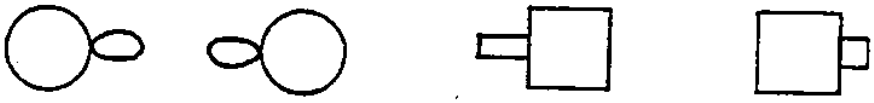


Sample 3

1

2

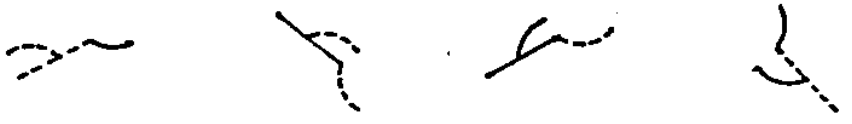
3



4

5

6



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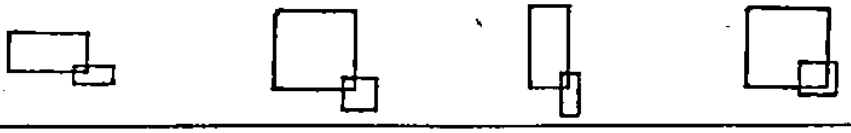

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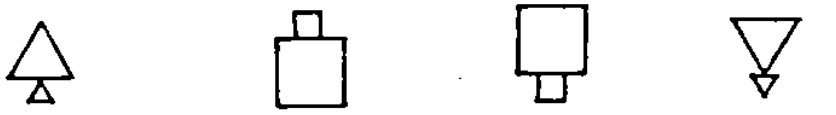


STOP

ADDITION

$52 + 37 =$

$$\begin{array}{r} 787 \\ +839 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ 7,242 \\ 543 \\ +\ 70 \\ \hline \end{array}$$

SUBTRACTION

$$\begin{array}{r} 64 \\ -28 \\ \hline \end{array}$$

$$\begin{array}{r} 1,000 \\ -\ 742 \\ \hline \end{array}$$

$519 - 273 =$

MULTIPLICATION

$$\begin{array}{r} 213 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 253 \\ \times 30 \\ \hline \end{array}$$

DIVISION

$360 \div 9 =$

$3\overline{)363}$

STOP

2 or 5 or 10

60 is about _____ times as large as 31

65 is about _____ times as large as 12

98 is about _____ times as large as 50

503 is about _____ times as large as 49

215 is about _____ times as large as 21

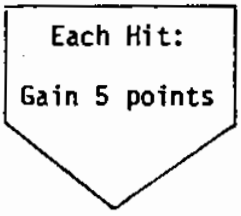
602 is about _____ times as large as 298

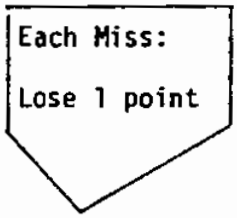
50 is about _____ times as large as 9

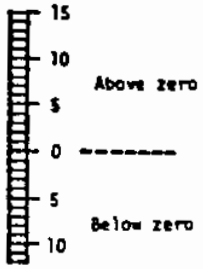
400 is about _____ times as large as 199

12 is about _____ times as large as $2\frac{1}{2}$

4 is about _____ times as large as $1\frac{3}{4}$

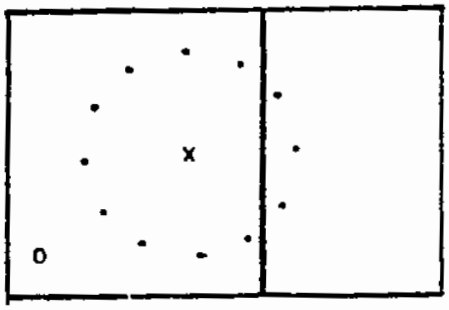




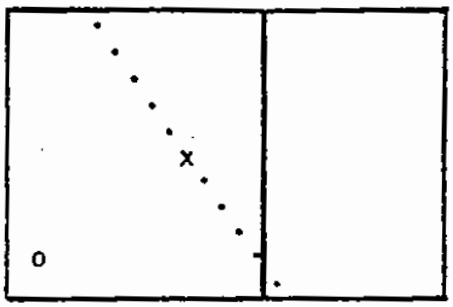


	Started with a score of	Number of Hits	Number of Misses	Ended with a score of
Jill	0	0	2	
Eric	2 above zero	1		4 above zero
Jerry	0	1	0	
Amy		0	0	5 below zero
Bill	0	2	3	
May		1	6	3 above zero
Peter	10 below zero	1		12 below zero

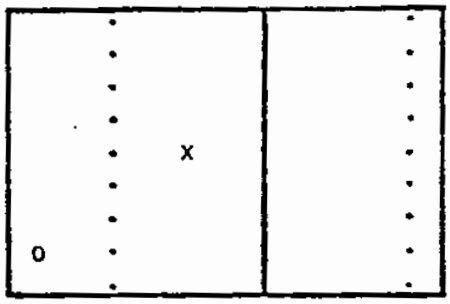
A



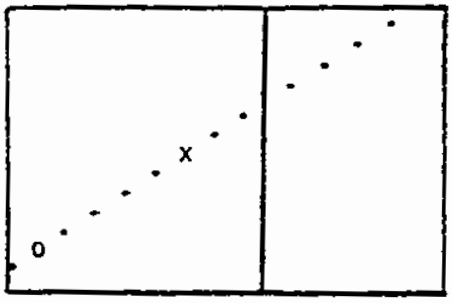
B



C



D

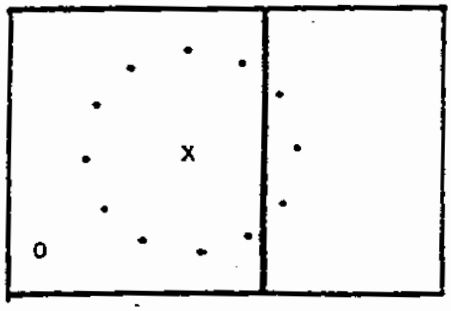


1. In which picture are all the dots the same distance from the line? A B C D

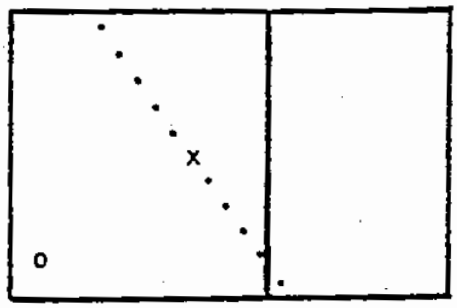
2. In which picture are all the dots the same distance from the x? A B C D

3. In which picture are the dots on the same line as x and o? A B C D

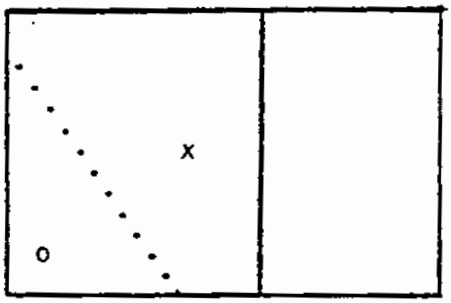
A



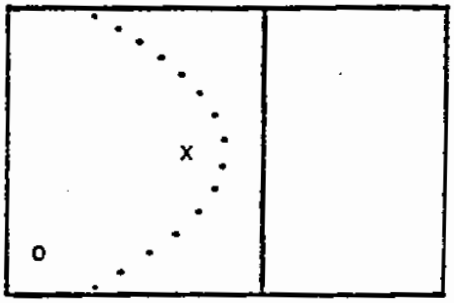
B



E



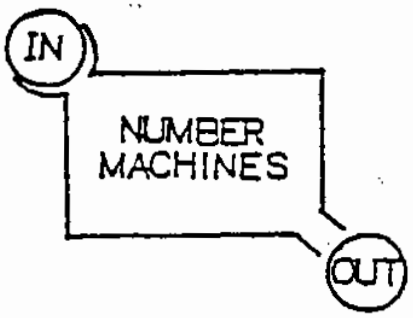
F



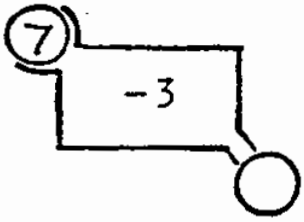
4. In which picture is each dot closer to x than to o? A B E F

5. In which picture is each dot just as close to x as to o? A B E F

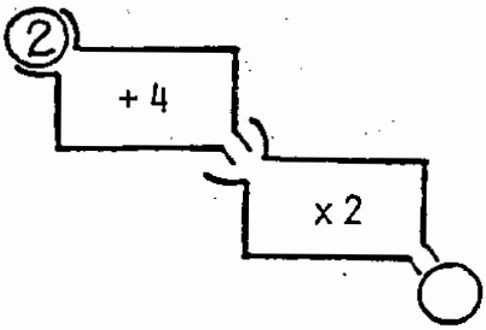
6. In which picture is each dot just as close to x as to the line? A B E F



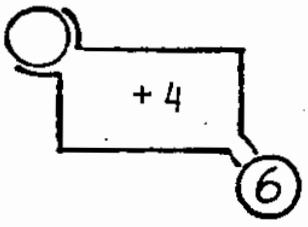
SAMPLE 1

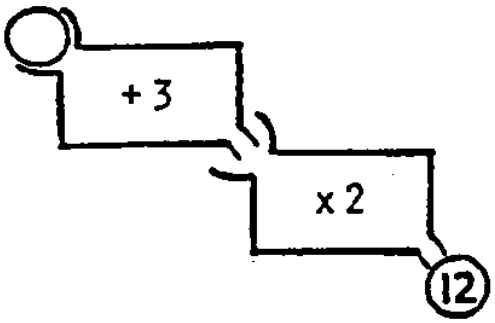


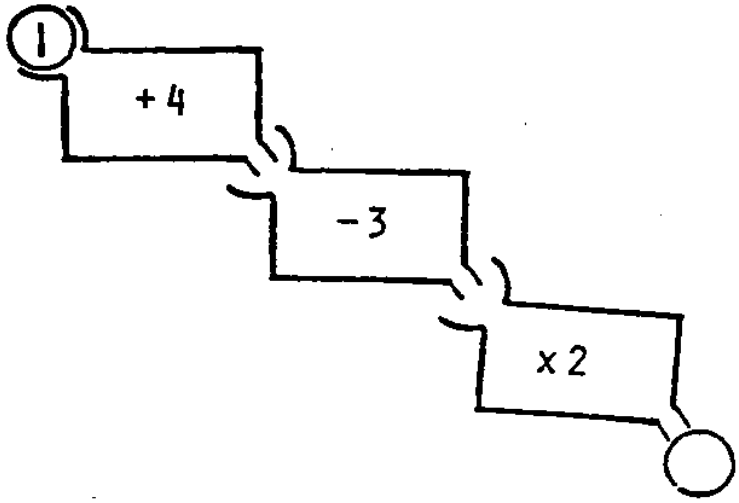
SAMPLE 2

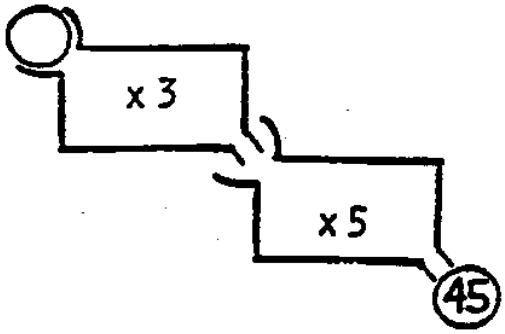


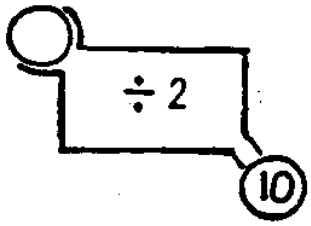
SAMPLE 3

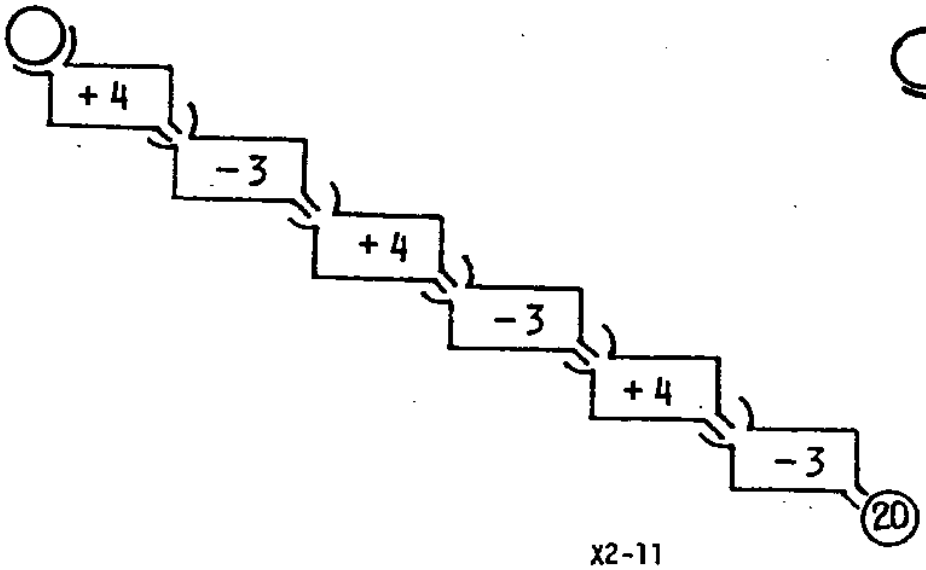


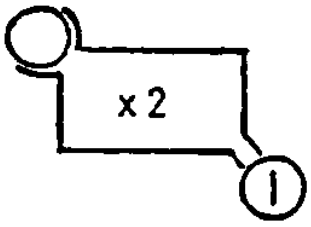

+3
x2
12


1
+4
-3
x2


x3
x5
45


÷2
10


+4
-3
+4
-3
+4
-3
20

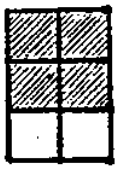

x2
1

HOW MUCH IS SHADED?

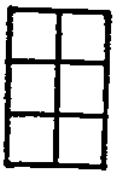
Sample:  $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$

 $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{3}{4}$

 $\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{3}$ $\frac{3}{4}$

 $\frac{1}{2}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{3}{4}$

SHADE THE FRACTIONAL AMOUNT

$\frac{1}{2}$ 

Each bucket holds 1 gallon.

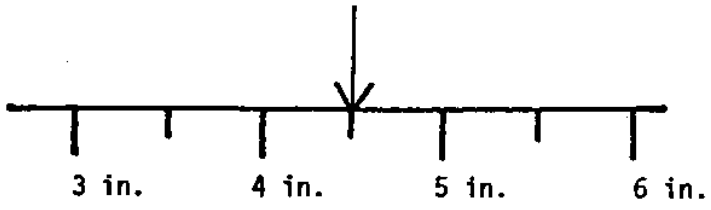
How many gallons are shown? Circle the best answer.

$2\frac{1}{10}$ $2\frac{1}{4}$ $2\frac{1}{2}$ $2\frac{3}{4}$ 3

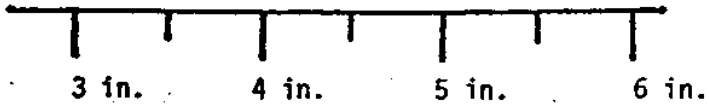
GO ON TO THE NEXT PAGE

Read the sample, then do the problems.

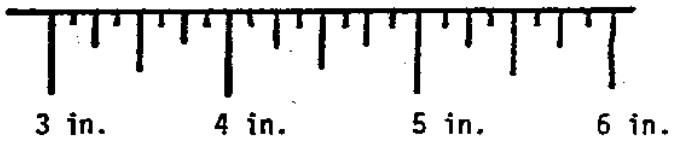
Sample: Put an arrow at $4\frac{1}{2}$ inches.



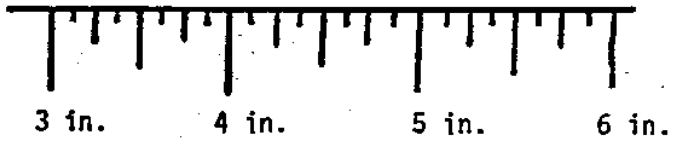
Put an arrow at $5\frac{3}{4}$ inches.



Put an arrow at $3\frac{1}{2}$ inches.



Put an arrow at $4\frac{1}{4}$ inches.



Put the correct answer in the box.

$\frac{3}{5} - \frac{1}{5} = \square$

$5\frac{1}{4} - 3 = \square$

$\frac{1}{3}$ of $15 = \square$

1. A belt costs $4.
   A shirt costs $5.
   A hat costs $10.
   How much more does a hat cost than a belt? _____

2. Joe started with 40 marbles.
   Marbles cost 3¢ each.
   His father gave him 4 more.
   Then his mother gave him 5 more.
   How many marbles did he have then? _____

3. Yesterday Ann bought 3 books.
   Books cost 20¢ each.
   Ann has 30¢ left
   She wants to buy a game that costs 45¢.
   How much more money does she need to buy the game? _____

4. There are 32 tablespoons in a pint.
   There are 2 pints in a quart.
   There are 4 quarts in a gallon.
   How many pints are in 5 quarts? _____

5. Sue has 12 bottles.
   It takes 36 bottles to fill a case.
   It takes 6 bottles to fill a carton.
   How many cartons can Sue fill? _____

6. Peter has $10.
   He needs 4 pounds of candy.
   Candy is $2 per pound.
   He is buying candy for 6 people.
   How much will the candy cost altogether? _____

7. In Mrs. Smith's class: There are 17 boys.
   There are 4 girls who wear glasses.
   There are 12 boys who don't wear glasses.
   There are 30 students altogether.
   How many girls don't wear glasses? _____

MANY DIFFERENT ANSWERS

1. Rules: Write all the numbers you can.

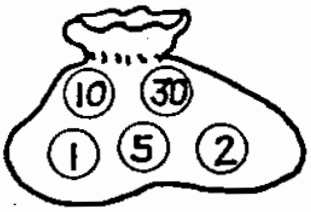
   Use only the digits 1, 2, 3.

   Don't use any digit more than once.

   Give all possible numbers. ~~124~~, ~~22~~, 2, 31, 132

2. Rules: Take out two balls.

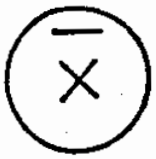
   Add the two numbers to get a score.



   What are the possible scores? 6, ~~2~~, 35,

3. 3 STICKS

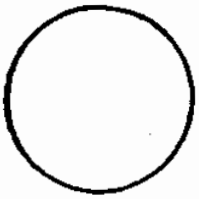

CROSS IN NO PLACES

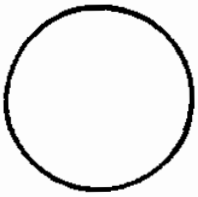

CROSS IN ONE PLACE

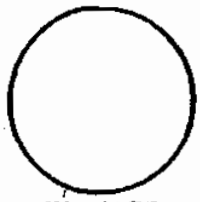

CROSS IN TWO PLACES

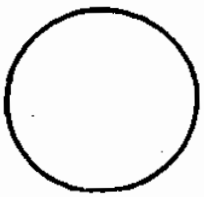

CROSS IN THREE PLACES

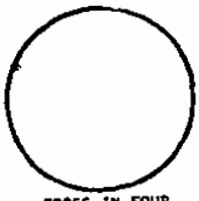
4 STICKS

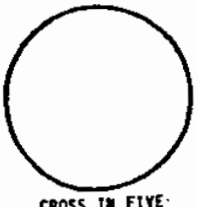

CROSS IN NO PLACES

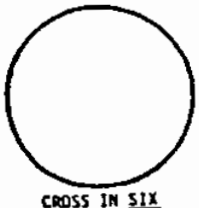

CROSS IN ONE PLACE


CROSS IN TWO PLACES


CROSS IN THREE PLACES


CROSS IN FOUR PLACES


CROSS IN FIVE PLACES


CROSS IN SIX PLACES