

1. The number of pages in a book is 120. If the number of pages is divided by the number of chapters, the quotient is 10. How many chapters are there in the book?



2. A number is divided by 5, and the quotient is 12. What is the number?

3. A number is divided by 8, and the quotient is 15. What is the number?

4. A number is divided by 10, and the quotient is 18. What is the number?

5. A number is divided by 12, and the quotient is 20. What is the number?

6. A number is divided by 15, and the quotient is 24. What is the number?

7. A number is divided by 18, and the quotient is 30. What is the number?

8. A number is divided by 20, and the quotient is 36. What is the number?

9. A number is divided by 24, and the quotient is 42. What is the number?

10. A number is divided by 30, and the quotient is 48. What is the number?

11. A number is divided by 36, and the quotient is 54. What is the number?

12. A number is divided by 40, and the quotient is 60. What is the number?

13. A number is divided by 45, and the quotient is 66. What is the number?

The Pet Shop

This problem gives you the chance to:

- use adding, subtracting, multiplying and dividing whole numbers in real contexts
-

1. Four baskets of puppies are on sale today.
In each basket there are five puppies.



In all, how many puppies are on sale? _____

2. There are 12 snakes in the pet shop. Each snake is about 2 feet long.
If they are placed end to end how long would they be? _____ feet



Show how you figured this out.

3. In the window of the pet shop are some rabbits.
Inside the shop there are 12 more rabbits. In all, there are 45 rabbits.

How many rabbits are in the shop window? _____
Show how you figured this out.

4. Three parrots eat 14 bags of parrot food each week.

How many bags of parrot food do three parrots eat each day? _____
Show how you figured this out.



5. In the pet shop fish tank there are 18 goldfish.
There are twice as many angel fish as goldfish in the fish tank.
And there are half as many guppies as goldfish in the fish tank.



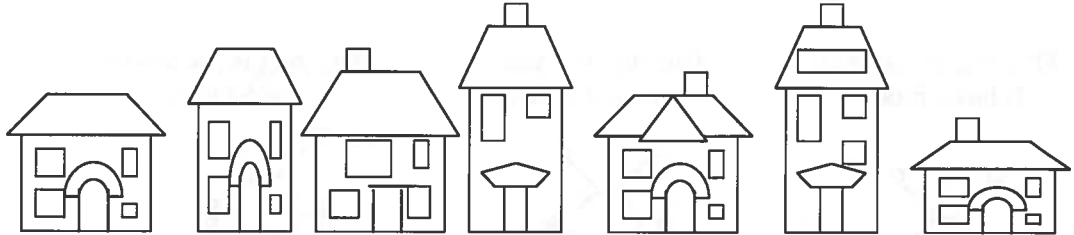
In all, how many fish are there in the pet shop fish tank? _____
Show how you figured this out.

House Numbers

This problem gives you the chance to:

- use odd and even numbers
-

Here is a street of 7 houses.



House Number **1** **2** **3** **4** **5** **6** **7**

1. Today, the mail man delivered two letters to each of the houses with odd numbers. How many letters, in all, did he deliver to these houses today? _____
Show how you figured this out.

2. On each day of the week, a newspaper is delivered to each of the houses that has an even number. How many newspapers are delivered each week to these houses? _____
Show how you figured this out.

3. There is a dog in the yard of each of the houses with an odd number between numbers 2 and 6. There is a cat in the yard of each of the first four houses. Which house has both a dog and a cat in its yard? _____
Explain how you figured this out.

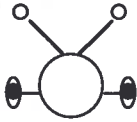
Blob Bugs

This problem gives you the chance to:

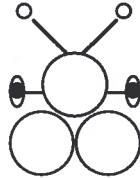
- identify and work with a linear number sequence derived from diagrams

Bugs from the land of Blob are born with one blob.
On each birthday they get two new blobs.

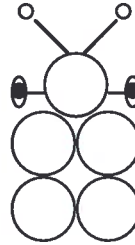
This bug is just born.
It has 1 blob.



This bug is 1 year old.
It has 3 blobs.



This bug is 2 years old.
It has 5 blobs.



1. How many blobs does a 3 year old bug have?
Write your answer in the table.

Age of bug	0	1	2	3	4
Number of blobs	1	3	5		

2. How many blobs does a 4 year old bug have? _____
Show how you figured it out.

3. How many blobs does an 7 year old bug have? _____
Explain how you figured this out.

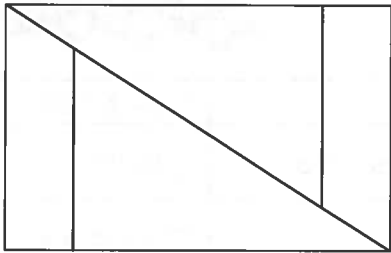
4. When a bug has 19 blobs how old is it? _____
Show how you figured this out.

Looking Glass Land

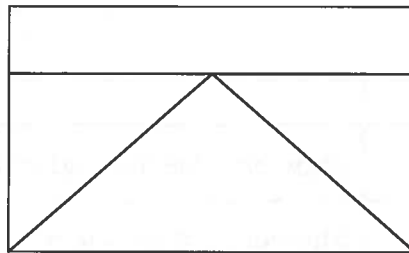
This problem gives you the chance to:

- recognize and create shapes that have lines of symmetry

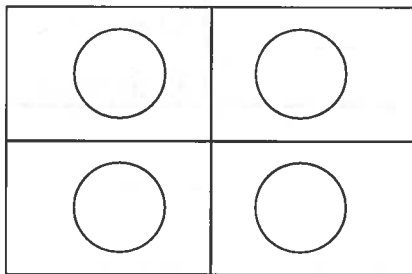
The people of Looking Glass Land are choosing a new national flag. Their new flag must have a symmetrical design.



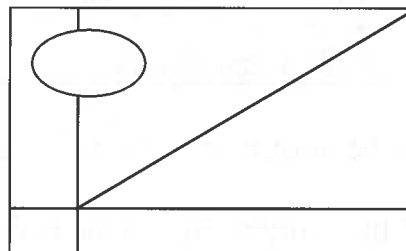
Shape A



Shape B



Shape C



Shape D

1. Which of these four flags have a symmetrical design?

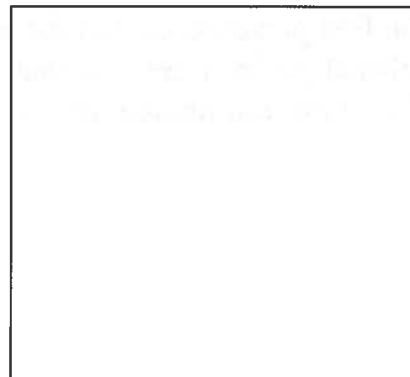
2. Draw the lines of symmetry on the flags that have a symmetrical design.

3. None of the Looking Glass Land people like any of these flags.

They now want a square flag that has at least two lines of symmetry.

Design a flag with at least two lines of symmetry.

Draw the lines of symmetry on your design.



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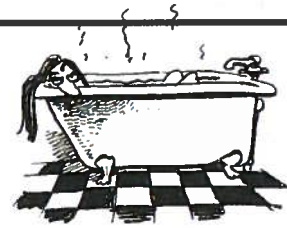
Time to Get Clean

This problem gives you the chance to:

- work with a table of activities and times

Here is a list showing what happens in Megan and Carl's bathroom every morning.

$1 \text{ hour} = 60 \text{ minutes}$



<i>Person</i>		<i>Time taken</i>
Megan	Showers, washes and dries hair, brushes teeth	$\frac{1}{2}$ hour
Carl	Showers, brushes teeth	20 minutes
Mom	Takes a bath, brushes teeth	$\frac{3}{4}$ hour
Dad	Showers, shaves, brushes teeth	50 minutes
Grandpa	Showers, shaves	35 minutes

1. Who spends the most time in the bathroom? _____
2. Who spends the shortest time in the bathroom? _____
3. How long do Dad and Grandpa spend in the bathroom, in all? _____
Show how you figured this out.
4. How much longer does Megan spend in the bathroom than Carl? _____
5. The first person goes into the bathroom at 6 a.m. and it is in use until everyone has finished getting clean. At what time will the bathroom be free? _____
Show how you figured this out.