

The Art of Teaching Math in Grades 1 – 4

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1. There are 16 more king's horses than king's men. How many fewer king's men are there than king's horses?
2. Fred sold 18 watermelons and has another 7 left to sell. How many more watermelons has Fred sold than he has left to sell?
3. For his pillow fight party, Marc found 12 pillows at home. This was 4 more pillows than he borrowed from his grandmother. The guests brought as many pillows as Marc prepared altogether. How many pillows did the guests bring to the party?
4. The Inspecting Witch tested 15 new brooms and 5 used brooms. She threw away those that could not fly. Their number was 8 greater than the number of flyable brooms. How many flyable brooms did the Witch find?
5. Ms. Turner drove 825 miles in March. She drove 3 times as many miles in March as she did in January. She drove 4 times as many miles in February as she did in January. What was the total number of miles Ms. Turner drove in February?

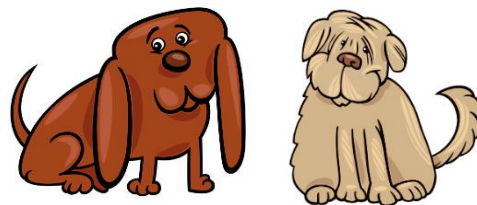
A 1,100**B** 1,925**C** 5,775**D** 9,900

Source: NYS Testing Program, Grade 4, Mathematics Test, 2013

6.



This picture shows Alpha and Beta.



This picture shows Beta and Gamma.

Circle Beta.

7.



Rose, Sam and Tania have plates with some strawberries and plums. Tania and Rose each have 3 strawberries on their plates. Sam and Tania each have 4 plums on their plates. Who does each plate belong to?

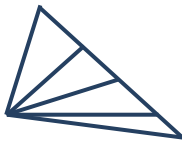
8. The population of a small forest is made up of bunnies, foxes and wolves. Bunnies always tell truth, foxes always lie. Wolves tell truth sometimes and lie sometime. One of the animals says: I am a fox. What animal is it?

9.



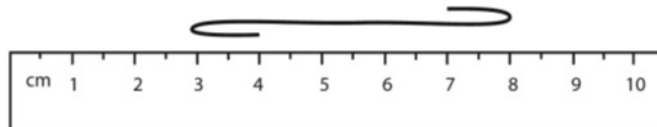
- 1) Make a square of these four triangles.
- 2) Make two squares of these four triangles.

10.



How many triangles are there in this picture?

11.



If the string in the diagram above is pulled straight, which of these is closest to its length?

- A** 5 cm **B** 7 cm **C** 8 cm **D** 9 cm

Source: TIMMS 2011 Assessment, Fourth Grade © 2013 IEA

12. In the calculations below, each card hides a digit. Find all of those digits.

$$\begin{array}{r}
 1) \quad \square\square\square \\
 + \quad \quad \mathbf{1} \\
 \hline
 \mathbf{1}\square\square\square
 \end{array}$$

$$\begin{array}{r}
 2) \quad \mathbf{38}\square \\
 + \quad \mathbf{4}\square\mathbf{5} \\
 \hline
 \square\mathbf{41}
 \end{array}$$