

1. Kitty showed Mr Bloodhound that the order of numbers matters. Chose three numbers between 1 and 10 and write them in the boxes.

Six different combinations can be made from these three numbers. Can you work out what they are and then put them in their correct place on the number line below?



2. Kitty used rounding up and adjusting to work out how many wine gums Bassett had eaten that day. Well he's been at it again! Here's what he ate over the last 3 mornings and afternoons:

$29 + 56 = \underline{\hspace{2cm}}$

$94 - 79 = \underline{\hspace{2cm}}$

$124 + 249 = \underline{\hspace{2cm}}$

Round and adjust to help you with these calculations

3. When Bassett went to see Woolwich Arsenal play 'Top of the League' Sheffield United there were 46,675 people watching the match: Round this number to the nearest 10, 100 and 1000

Nearest 10

Nearest 100

Nearest 1000

$46,675 \quad \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}}$

$\underline{\hspace{2cm}}$

4. If Mr Bloodhound eats around 300 wine gums a month approximately how many would he eat in a year? Write your answer here:

$\underline{\hspace{2cm}}$

5. Kitty and Mr Bloodhound explored several ways of doing calculations in your head. Here are some more for you to try. Which method did you use for each one? Write down your workings to show how you got each answer:

$236 + 143 = \underline{\hspace{2cm}}$

$509 - 367 = \underline{\hspace{2cm}}$

$752 - 521 = \underline{\hspace{2cm}}$

$27 \times 9 = \underline{\hspace{2cm}}$

$125 + 769 = \underline{\hspace{2cm}}$

$99 \times 7 = \underline{\hspace{2cm}}$

6. Fill in the missing numbers in these sequences:

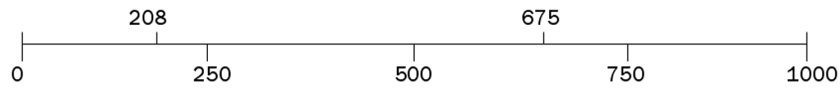
6 12 ____ 24 30 ____ 42 48 ____ 60

1 ____ 9 16 25 ____ 64 ____ 100 Do you know what are these numbers called? _____

2 3 5 ____ 11 13 ____ 19 Do you know what these numbers are? _____

7. I am a mystery number. I am between 20 and 30. I have the factors 1, 3 and 9 and the sum of my digits equals one of my factors. What number am I?

8. What is the difference between these two numbers on the number line?



Write your answer here: _____

9. Partitioning works with multiplication too! Try partitioning this calculation to see if you can make it easier. Fill in the brackets and work out the answer

$$22 \times 48 = (\quad \times \quad) + (\quad \times \quad)$$

Write your answer here: _____

10. Ebenezer Brainteaser used doubling and halving to solve his calculation. Join the following set of numbers to their doubles:

29	203	9	741	41	58
1482	406	112	82	18	56

Use doubling and halving to solve this calculation:

$$500 \times 37 = \underline{\hspace{2cm}}$$

11. Bassett explains division by sharing wine gums. If Kitty, Ebenezer, Bassett and Mr Bloodhound wanted to share 3 packets of wine gums and each packet contains 12 gums how many would each person have? _____

If Bassett's wife Margaret also wanted a share how many would they have each now? _____

What is the remainder? _____

12. Jackie Numero was certainly not impressive as The Calculating Mr One. Maybe you could help him out. Using the numbers from your birthday (use the day you were born, the month eg. June would be the number 6 and the individual numbers in the year of your birth eg. 1999 would give you a 1 and three 9s, 2000 would give you a 2) see if you can hit the target number of 538 (the amount of money Mr Bloodhound owed at the beginning of the play.) You may use addition, subtraction, multiplication or division and any or all of the numbers. But remember, you can only use a number once. Show your workings here:

How close did you get? If you didn't hit the target what is the difference? _____

13. In class, set up a tables competition. Make up cards of each of the tables (eg. 1×8 ... 10×8) and challenge your classmates to a duel!. Ask your teacher to turn over 10 cards, one at a time. The first to shout out the answer wins the card. The one with the most cards wins the duel. Make up a league table and see how high you can get. Remember, it's just a case of learning!!