Maths Answers Wednesday:

1. **4 and 5, 12 and 13 (send your sentences to your teacher)**
2. **1.4 – 1 2.6 – 3 9.2 – 9 3.5 – 4 1.9 – 2 7.1 – 7**
3. **4.5, 3.7, 16.8, 1.9**
4. **Any number between 44.5 and 45.4**
5. **Mo is correct as 0.4 has a 4 in the tenths column so it rounds to 0 not 1.**
6. **On the first one Jacob has rounded down instead of up. For the other two he has made a mistake with the two whole numbers which the decimals sit between and has rounded incorrectly.**

Key Vocabulary
tenths
hundredths
decimal tenths
decimal hundredths
decimal equivalents
part-whole model
rounding
decimal point
place value

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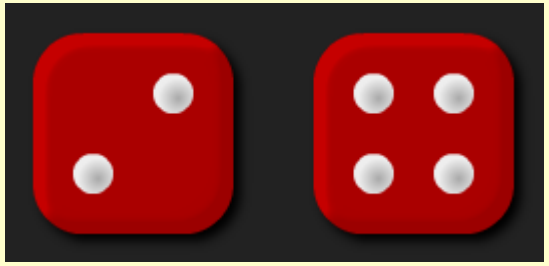
I can round decimals with one decimal to the nearest whole number.

Rounding Decimals

If the tenths digit is **1, 2, 3 or 4,** we round **down** to the nearest whole number.

If the tenths digit is **5, 6, 7, 8 or 9,** we round **up** to the nearest whole number.

Round the Decimal Game



There are two dice, each of them with faces labelled from 0 - 9
When the dice are rolled they can be combined in two different ways to make a number less than 10 with one decimal place.

For example, if I roll a 2 and a 3 I can combine them to make 2.3 or 3.2.

Now round each of these numbers to the nearest whole number: 2.3 rounds to 2 and 3.2 rounds to 3. Repeat for other rolls of the dice.

Do both of the numbers you make ever round to the same whole number?

There some interactive dice here that you can use for this problem.

Numbers rolled	1st decimal number	Rounds to	2nd decimal number	Rounds to
2 and 3	2.3	2	3.2	3
2 and 6	2.6	3	6.2	6

Key questions
Which numbers can we make?
What will they round to? Will they round up or down? Why?
Do they round to the same whole number? Why? When will this happen?
Does it make a difference if the digits rolled are unique?

Challenge

1. Did you find examples where both decimal numbers round to the same whole number? Can you come up with a rule about when both of the decimal numbers will round to the same whole number?
2. Having completed the original task, add a column to the right hand side of your table to note when numbers round up or down. Can you predict from the initial dice roll, whether the decimal numbers made will round up or down?
3. What if you change the numbers on the faces of the dice?