SCORE

Numbers
With Classified
answer book

8

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3- Rounding

1. (a) Round 3925 to the nearest thousand.

   (b) Round 3925 to the nearest hundred.

   (c) Round 3925 to the nearest 10.

   (d) Round 17.89 to the nearest whole number.

2. (a) Round the number 7.819 to one decimal place.

   (b) Round the number 7.819 to 2d.p

3. At a football match between City and Rovers, there were 4486 fans.

In the match report, 4486 was rounded to the nearest thousand.

(a) Write 4486 to the nearest thousand.

At the football match 2156 hot drinks were sold.

The caters round this number to the nearest hundred.

(b) Round 2056 to the nearest hundred.

During the match, Rovers had 47.47% possession of the ball during the game.(c) Round 47.47 to the nearest whole number.

4. Round 33 to the nearest hundered.

5. Write the number 51 to the nearest hundred.

6. a)Write the number 1906 to the nearest ten

b) Write the number 38 627 to the nearest thousand

7. Some of these numbers round to 15 to the nearest whole number.

Put a ring around each of them.

14.45   14.54   14.55   15.44   15.45   15.54

8. (a) Write 5725 to the nearest 100.

(b) Write 83.07718 correct to two decimal places.

(c) Write 6.35 correct to 1 decimal place.

(d) Write 129.34952 correct to 1 decimal place.

(e) Write 65.047 correct to 1 decimal place.

9. The pupils in a class had a sponsored swim. They collected £429.24

(a) How much is £429.24 to the nearest hundered pounds?

(b) How much is £429.24 to the nearest ten pounds?

10. a) Tick the cards that round to 8 to the nearest integer.

7.8	8.1	7.5	8.15
7.125	8.05	8.5	7.49

b) Tick the cards that round to 6.1 to 1 decimal place.

6.14	6.04	6.15	6.049
6.123	6.099	6.149	6.05

11. Round these amounts of money to the nearest pound.

The first one is done for you.

amount	to the nearest pound
£3.20	£3.00
£6.49	£
£9.81	£
£50.75	£

12. Four thousand years ago people thought the value of π was $\left(\frac{16}{9}\right)^2$

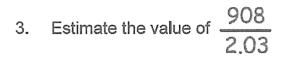(a) Write $\left(\frac{16}{9}\right)^2$ as a decimal correct to **2 decimal places.**

(b) Now write the **real value** of π correct to **2 decimal places.**

4- Estimation

1. Estimate 2.9 x 401

2. Work out an estimate for the value of 7.1 x 97

3. Estimate the value of $\dfrac{908}{2.03}$

4. Stuart buys 72 packets of crisps at 19p each.
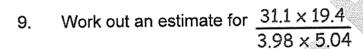   Estimate the total cost.

5. Work out an estimate for $\dfrac{58.8 \times 20.9}{101.4}$

6. Estimate the total cost of 31 televisions at £196.50 each and 19 DVD
    players at £50.99 each.

    Show clearly how you obtained your answer.

7. Estimate $\dfrac{31 \times 398}{61}$

Show clearly how you obtained your answer.

8. Estimate the value of! $9.03 + 19.87 \times 3.11$ " 4.97

You must show your working.

9. Work out an estimate for $\dfrac{31.1 \times 19.4}{3.98 \times 5.04}$

10. Estimate the value of $\dfrac{702.1 + 299.3}{1.9 \times 5.1}$

11. Ami and Josh use a calculator to work out $\dfrac{595}{4.08^2 + 5.3}$

Ami's answer is 27.1115
Josh's answer is 271.115

One of these answers is correct.

Use approximations to find out which answer is correct.

12. Jayne writes down the following

$$3.4 \times 5.3 = 180.2$$

Without doing the exact calculation, explain why Jayne's answer cannot be correct.