

Interleaved practise

Year 7, week 5

Number:

1. Complete the table below

Index Notation	Product	Numeral
10^2	10×10	100
10^3	$10 \times 10 \times 10$	1000
10^4	$10 \times 10 \times 10 \times 10$	10 000
10^5	$10 \times 10 \times 10 \times 10 \times 10$	100 000
10^6	$10 \times 10 \times 10 \times 10 \times 10 \times 10$	1 000 000

2. Show where these numbers would go on the number line: -6, 12, -24, 9, -15



3. Write the next 3 numbers for this pattern of square numbers. How do you know they are square numbers? $2 \times 2 = 4$ $3 \times 3 = 9$ $4 \times 4 = 16$ $5 \times 5 = 25$ $6 \times 6 = 36$

4, 9, 16, 25, 36

4. Circle the note or notes would you use to pay for the following items so that you receive the least amount of change?

Milk \$3.59, eggs \$4.50, bread \$2.30, apples \$5.90, orange juice \$5.27 and cereal \$3.75



Rounding to whole dollars

$$\$4 + \$5 + \$2 + \$6 + \$5 + \$4 = \$26$$

Hint: You don't need to work out the exact amount so consider rounding.

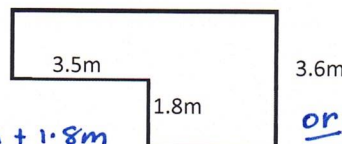
5. True or False? Explain your thinking

$11(x + 37) = 11x + 407$ True $11 \times x + 11 \times 37 = 11x + 407$

Measurement/Geometry:

6. On the back of this page, draw and label an example of each of the following types of angles - acute, obtuse, right and reflex angles. This will vary. Accept any answer where acute is smaller than 90° , obtuse is greater than 90° but less than 180° . Reflex is greater than 180° .

7. This is a drawing of the coop I am building for my chickens. What length of chicken wire will I need to buy to enclose it?



$$7m + 3.6m + 3.5m + 1.8m + 3.5m + 1.8m$$

or $2(7m + 3.6m) = 2 \times 10.6m = 21.2m$

8. How many litres of water will I have to take on a camping trip to allow for 90 cups of water if my cups hold 275mL?

$$275 \text{ mL} \times 90 = \square$$

$$24750 \text{ mL} = 24.75 \text{ L}$$

$$\begin{array}{r} 275 \\ \times 90 \\ \hline 450 \\ 6300 \\ \hline 18000 \\ \hline 24750 \end{array}$$

Chance/Data:

9. The solar panels on my house produced the following amount of electricity. What is the average amount of electricity produced per month?

Period	Kilowatts (kW)
Jan-April	1866 kW
April-July	1595 kW
July-Oct	1222 kW
Oct-Jan	1697 kW

NB. Allow your child to use a calculator if necessary.

$$\begin{array}{r} 1866 \\ 1595 \\ 1222 \\ + 1697 \\ \hline 6380 \end{array}$$

$$6380 \div 12 = 531.66 \text{ kW}$$