# Isolation Pack I Maths I Week 2

## Day I

Round those numbers to the nearest 10, 100 (or 1000). Attempt two blocks today please. So go Mild and Hot or Hot and Extra Hot. Challenges can be found on page 4.

Mild – Block A Hot – Block B Extra Hot – Block C

## Day 2

See if you can recall your factors of numbers. Remember, these are numbers than can be multiplied together to make a product (the answer to a multiplication calculation). Some numbers can have more than 2 factors remember. Challenges can be found on page 5.

Mild – Block A Hot – Block B Extra Hot – Block C

## Day 3

Answer the calculations.

Mild Challenge – Use the squares to show the working out.

Hot Challenge - Answer the calculations. You may have to change the denominator on some of the them. Remember – whatever you do to the denominator you must do the same to the numerator.

## Day 4

Mild Challenge – Use the carrots to work out the fraction of amounts. (Either cut them out or draw out). Use a bar model to help you if you need.

Hot Challenge – Answer the calculations – make sure you read the question carefully. Draw out a bar model to help you.

# Day 5

Mild Challenge – Fill in the part whole models

Hot Challenge – Shade in the mixed number representations and fill in the part whole model. You can print it out or draw the representations.

## **ROUNDING 2**

#### TARGET To round any number to the nearest 10, 100 or 1000.

Always look at the column to the right of that to which you are rounding. If the number in that column is: 5 or more, round up less than 5, round down

#### Examples

TO THE NEAREST 10 8438 rounds to 8440 6571 rounds to 6570 925 rounds to 930



TO THE NEAREST 100 8438 rounds to 8400 6571 rounds to 6600 925 rounds to 900

| B             |                    |
|---------------|--------------------|
| Round to the  | nearest 10.        |
| 136           | 6 2692             |
| 2 841         | <b>7</b> 4357      |
| 3 529         | <b>8</b> 1034      |
| 4 263         | <b>9</b> 3715      |
| <b>5</b> 915  | 10 8478            |
|               |                    |
| Round to the  | nearest 100.       |
| 4728          | <b>16</b> 5205     |
| 253           | 1 3193             |
| <b>1</b> 2561 | 18 2946            |
| 1 837         | 19371              |
| 1484          | 20 6652            |
|               |                    |
| Round to the  | nearest:           |
| a) 10 b) 10   | 00 <b>c)</b> 1000. |
| 2 1284        | 20 6592            |
| 22 881        | 20 9415            |
| 23 5929       | 28 4163            |

24 8754

25 3275

2607

7358

30

TO THE NEAREST 1000 8438 rounds to 8000 6571 rounds to 7000 925 rounds to 1000



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## **FACTORS 2**

### TARGET To recognise and use factor pairs in mental calculations.

#### Examples

 $18 \times 15 = 18 \times 3 \times 5$  $= 90 \times 3$ = 270



$$144 \div 16 = 144 \div 2 \div$$
  
= 72 ÷ 8  
= 9

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| B                                   | 國國的          |       |            |  |
|-------------------------------------|--------------|-------|------------|--|
| Fine                                | d all the fa | actor | s of each  |  |
| target number. The number           |              |       |            |  |
| of f                                | actors is s  | now   | n in       |  |
| Dia                                 | 12 (2)       |       | (0 (1 2)   |  |
| V                                   | 13(2)        | 0     | 60 (12)    |  |
| 2                                   | 28 (6)       | 8     | 72 (12)    |  |
| 3                                   | 32 (6)       | 9     | 88 (8)     |  |
| 4                                   | 40 (8)       | 10    | 100 (9)    |  |
| 5                                   | 48 (10)      | 1     | 126 (12)   |  |
| 6                                   | 54 (8)       | 12    | 144 (15)   |  |
| Brea                                | ak down t    | he se | econd      |  |
| nun                                 | nber into    | facto | rs to help |  |
| wor                                 | k out eac    | h pro | blem.      |  |
| B                                   | 18 × 6       | Ø     | 84 ÷ 4     |  |
| 14                                  | 16 × 8       | 18    | 210 ÷ 14   |  |
| B                                   | 22 × 12      | 19    | 96 ÷ 6     |  |
| 16                                  | 15 × 18      | 20    | 108 ÷ 12   |  |
| Find a pair of factors to           |              |       |            |  |
| solv                                | e each mi    | ssing | number     |  |
| prol                                | olem.        |       |            |  |
| 21                                  | 140 =        |       | 20         |  |
| 22                                  | 270 = 9      | ×     |            |  |
| <b>23</b> $150 = 50 \times \square$ |              |       |            |  |
|                                     |              |       |            |  |
|                                     |              |       |            |  |
| 420 = ∐ × 60                        |              |       |            |  |
| 26                                  | 320 = 4      | ×     |            |  |
|                                     |              |       |            |  |

 $480 = \square \times 6$   $48 = 8 \times 6$   $480 = 80 \times 6$ Missing number is 80.

| C               |              |
|-----------------|--------------|
| Find all the fa | actors of:   |
| <b>1</b> 66     | 7 143        |
| 2 96            | 8 135        |
| 3 114           | <b>9</b> 156 |
| 4 150           | 10 131       |
| 5 128           | 196          |
| 6 121           | 12 180       |
|                 |              |

Break the second number down into factors to help work out each problem.

| 1 28 × 16  | 168 ÷ 12           |
|------------|--------------------|
| 1 24 × 25  | 176 ÷ 22           |
| 1 22 × 18  | 165 ÷ 15           |
| 16 31 × 24 | <b>20</b> 147 ÷ 21 |

Find the highest factor shared by:

- 15 and 40
   18 and 24
   12 and 20
- 24 30 and 50
- 25 32 and 56
- 26 18 and 45
- 27 14 and 63
- 23 22 and 55
- 29 28 and 42
- **30** 32 and 48

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### Mild Challenge

Week 2 Day 3



## Hot Challenge

Week 2 Day 3

1. 2/6 + 3/6 =2. 4/10 - 2/10 =3. 2/6 + 4/12 =4. 1/3 + 2/6 =5. 2/3 - 1/3 =6. 1/3 + 3/9 =7. 10/14 - 6/14 =8. 3/4 + 1/12 =9. 2/8 + 6/16 =

| 1. | <u>3</u><br>4      | + | 5<br>12        | + | <u>1</u><br>6 | + | 2<br>3         | = |    |
|----|--------------------|---|----------------|---|---------------|---|----------------|---|----|
|    | 12                 | + | 12             | + | 12            | + | 12             | = | 12 |
| 2. | 2<br>9             | + | <u>5</u><br>18 | + | 2<br>3        | + | 5              | = |    |
|    | 18                 | + | 18             | + | 18            | + | 18             | = | 18 |
| 3. | <del>7</del><br>20 | + | <u>4</u><br>5  | + | <u>3</u><br>4 | + | <u>6</u><br>10 | = |    |
|    | 20                 | + | 20             | + | 20            | + | 20             | = |    |

Mild Challenge

Week 2 Day 4

Draw or cut out the 20 carrots. Share them into groups to find the following fractions.

There are carrots.



$$\frac{1}{4} \text{ of } 20 = \_\_\_}$$

$$\frac{2}{4} \text{ of } 20 = \_\_\_}$$

$$\frac{3}{4} \text{ of } 20 = \_\_\_}$$

$$\frac{4}{4} \text{ of } 20 = \_\_\_}$$

$$\frac{1}{5} \text{ of } 20 = \_\_\_}$$

$$\frac{1}{5} \text{ of } 20 = \_\_\_}$$

$$\frac{1}{5} \text{ of } 20 = \_\_\_}$$

$$\frac{4}{5} \text{ of } 20 = \_\_\_}$$

$$\frac{5}{5} \text{ of } 20 = \_\_\_}$$

### Hot Challenge

### Week 2 Day 4



2) Use this bar model to find and represent:



### Mild Challenge

Week 2 Day 5

Fill in the missing sections in the part whole model.

Remember the whole goes in the top, so this will be the mixed number, which we know is a whole number and a fraction. The parts should have a whole number in one and a fraction in the other.











Hot Challenge Week 2 Day 5

Shade 4 2/5 and complete the part whole model.





Shade 2 1/3 and complete the part whole model.





Shade 2 6/12 and complete the part whole model.





Shade 4 3/5 and complete the part whole model.



