

| Focus 1  | Focus 2  | Focus 3                    | Focus 4                    | Focus 5                    | Focus 6                    |
|--|--|----------------------------|----------------------------|----------------------------|----------------------------|
| <p>Doubles of multiples of 10 &amp; 100 &amp; corresponding halves</p> <p>Multiply tenths by single digits &amp; multiples of 10, 100 &amp; 1000</p> | <p>Fractions of amounts &amp; percentages of an amount</p> | <p>Consolidation KIRFs</p> | <p>Consolidation KIRFs</p> | <p>Consolidation KIRFs</p> | <p>Consolidation KIRFs</p> |



# Key Instant Recall Facts

Doubles of multiples of 10 & 100 & corresponding halves  
Multiply tenths by single digits & multiples of 10, 100 & 1000

## Learn these facts off by heart

| ONE         | TWO         | THREE       | FOUR        | FIVE        | SIX         |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 x 1 = 1   | 2 x 1 = 2   | 3 x 1 = 3   | 4 x 1 = 4   | 5 x 1 = 5   | 6 x 1 = 6   |
| 1 x 2 = 2   | 2 x 2 = 4   | 3 x 2 = 6   | 4 x 2 = 8   | 5 x 2 = 10  | 6 x 2 = 12  |
| 1 x 3 = 3   | 2 x 3 = 6   | 3 x 3 = 9   | 4 x 3 = 12  | 5 x 3 = 15  | 6 x 3 = 18  |
| 1 x 4 = 4   | 2 x 4 = 8   | 3 x 4 = 12  | 4 x 4 = 16  | 5 x 4 = 20  | 6 x 4 = 24  |
| 1 x 5 = 5   | 2 x 5 = 10  | 3 x 5 = 15  | 4 x 5 = 20  | 5 x 5 = 25  | 6 x 5 = 30  |
| 1 x 6 = 6   | 2 x 6 = 12  | 3 x 6 = 18  | 4 x 6 = 24  | 5 x 6 = 30  | 6 x 6 = 36  |
| 1 x 7 = 7   | 2 x 7 = 14  | 3 x 7 = 21  | 4 x 7 = 28  | 5 x 7 = 35  | 6 x 7 = 42  |
| 1 x 8 = 8   | 2 x 8 = 16  | 3 x 8 = 24  | 4 x 8 = 32  | 5 x 8 = 40  | 6 x 8 = 48  |
| 1 x 9 = 9   | 2 x 9 = 18  | 3 x 9 = 27  | 4 x 9 = 36  | 5 x 9 = 45  | 6 x 9 = 54  |
| 1 x 10 = 10 | 2 x 10 = 20 | 3 x 10 = 30 | 4 x 10 = 40 | 5 x 10 = 50 | 6 x 10 = 60 |
| 1 x 11 = 11 | 2 x 11 = 22 | 3 x 11 = 33 | 4 x 11 = 44 | 5 x 11 = 55 | 6 x 11 = 66 |
| 1 x 12 = 12 | 2 x 12 = 24 | 3 x 12 = 36 | 4 x 12 = 48 | 5 x 12 = 60 | 6 x 12 = 72 |

| SEVEN       | EIGHT       | NINE         | TEN           | ELEVEN        | TWELVE        |
|-------------|-------------|--------------|---------------|---------------|---------------|
| 7 x 1 = 7   | 8 x 1 = 8   | 9 x 1 = 9    | 10 x 1 = 10   | 11 x 1 = 11   | 12 x 1 = 12   |
| 7 x 2 = 14  | 8 x 2 = 16  | 9 x 2 = 18   | 10 x 2 = 20   | 11 x 2 = 22   | 12 x 2 = 24   |
| 7 x 3 = 21  | 8 x 3 = 24  | 9 x 3 = 27   | 10 x 3 = 30   | 11 x 3 = 33   | 12 x 3 = 36   |
| 7 x 4 = 28  | 8 x 4 = 32  | 9 x 4 = 36   | 10 x 4 = 40   | 11 x 4 = 44   | 12 x 4 = 48   |
| 7 x 5 = 35  | 8 x 5 = 40  | 9 x 5 = 45   | 10 x 5 = 50   | 11 x 5 = 55   | 12 x 5 = 60   |
| 7 x 6 = 42  | 8 x 6 = 48  | 9 x 6 = 54   | 10 x 6 = 60   | 11 x 6 = 66   | 12 x 6 = 72   |
| 7 x 7 = 49  | 8 x 7 = 56  | 9 x 7 = 63   | 10 x 7 = 70   | 11 x 7 = 77   | 12 x 7 = 84   |
| 7 x 8 = 56  | 8 x 8 = 64  | 9 x 8 = 72   | 10 x 8 = 80   | 11 x 8 = 88   | 12 x 8 = 96   |
| 7 x 9 = 63  | 8 x 9 = 72  | 9 x 9 = 81   | 10 x 9 = 90   | 11 x 9 = 99   | 12 x 9 = 108  |
| 7 x 10 = 70 | 8 x 10 = 80 | 9 x 10 = 90  | 10 x 10 = 100 | 11 x 10 = 110 | 12 x 10 = 120 |
| 7 x 11 = 77 | 8 x 11 = 88 | 9 x 11 = 99  | 10 x 11 = 110 | 11 x 11 = 121 | 12 x 11 = 132 |
| 7 x 12 = 84 | 8 x 12 = 96 | 9 x 12 = 108 | 10 x 12 = 120 | 11 x 12 = 132 | 12 x 12 = 144 |

## What does this look like?

$80 \times 2 = ?$

We can calculate  $80 \times 2$  using the multiplication tables fact  $8 \times 2 = 16$  and place value.

$80 \times 2 = 8 \times 10 \times 2$   
 $80 \times 2 = 16 \times 10$   
 $80 \times 2 = ?$

$2 \times 3 = 6$        $0.2 \times 3 = 0.6$

The answer to  $0.2 \times 3$  is 10 times smaller than the answer to  $2 \times 3$

## What to do at home

### Decimal Duel

Goal: Be the first team to reach exactly 100 points.

You need:

1 dice, Decimal cards (0.1 to 1.0), Paper/whiteboard for scoring

How to Play:

In pairs or teams, roll the dice (1-6).

Draw a decimal card.

Multiply the dice number by the decimal (e.g.  $5 \times 0.6 = 3.0$ ).

Add the product to your score if correct.

First to exactly 100 wins! If you go over, miss a turn.

## Key Vocabulary

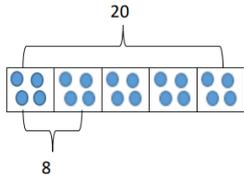
**Decimal:** A number that includes a decimal point (e.g. 0.7, 0.1, 0.8).

**Multiplication:** A mathematical operation used to find the total of equal groups (e.g.  $0.7 \times 70$ ).

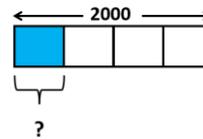
**Place value:** The value of each digit in a number based on its position (important when multiplying decimals).



## What does this look like?



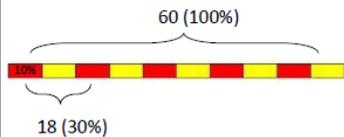
Find  $\frac{1}{4}$  of 2000



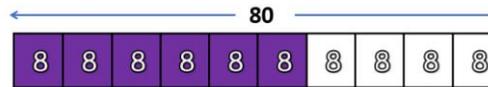
$\frac{1}{4}$  of 200 = 50

$\frac{3}{4}$  of 32 = 24

$\frac{1}{2}$  of 700 = 350



60% of 80 = 48



10% of 60 = 6

30% of 60 = 18

**Concrete Representation**

**Pictorial Representation**

**Abstract Representation**

## What to do at home

What is  $\frac{3}{5}$  of 25?

Can you draw a bar model to represent  $\frac{2}{3}$  of 60?

**Bargain buys:** go shopping and look for offers. Can you calculate the price of the item after the discount?

## Key Vocabulary

**Denominator:** The bottom number in a fraction. Shows the number of equal parts in the whole.

**Non unit fraction:** A fraction where the numerator is not one.

**Numerator:** The top number in a fraction. Shows how many parts we have.

**Unit fraction:** A fraction where the numerator is one.

**Equivalent:** Have the same value.

**Percent:** Parts per 100. It shows the ratio out of 100.



**K**ey **I**nstant **R**ecall **F**acts

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Learn these facts off by heart

What does this look like?

**Concrete  
Representation**

**Pictorial  
Representation**

**Abstract  
Representation**

What to do at home

Key Vocabulary

Year 6 - Focus 3



**K**ey **I**nstant **R**ecall **F**acts

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Learn these facts off by heart

What does this look like?

**Concrete**  
**Representation**

**Pictorial**  
**Representation**

**Abstract**  
**Representation**

What to do at home

Key Vocabulary

Year 6 - Focus 4



# K I R F

ey Instant Recall facts

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Learn these facts off by heart

What does this look like?

**Concrete**  
Representation

**Pictorial**  
Representation

**Abstract**  
Representation

What to do at home

Key Vocabulary

Year 6 - Focus 5



**K**ey **I**nstant **R**ecall **F**acts

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Learn these facts off by heart

What does this look like?

**Concrete**  
**Representation**

**Pictorial**  
**Representation**

**Abstract**  
**Representation**

What to do at home

Key Vocabulary

Year 6 - Focus 6