

Multiplication Facts: Working from what you know

(Using known facts to derive new facts)

You will probably know a lot of the answers to these questions without using the multiplication facts on the sheet. **However** you **must** show how you can use the information on the sheet to reach the answer to each question.

Section A

Use the multiplication facts given to work out the answer to the questions.
Remember to record your working.

1. $3 \times 2 = 6$. $4 \times 2 = 8$.

What is 7×2 ?

2. $2 \times 8 = 16$. $3 \times 8 = 24$.

What is 5×8 ?

3. $4 \times 7 = 28$.

What is 8×7 ?

4. $3 \times 5 = 15$.

What is 6×5 ?

5. $3 \times 8 = 24$.

What is 9×8 ?

6. $4 \times 6 = 24$

What is 6×8 ?

7. $2 \times 9 = 18$.

What is 8×9 ?

Section B

Use the multiplication facts given to work out the answer to the questions.
Remember to record your working.

1. $2 \times 4 = 8$.

What is 4×4 ? What is 8×4 ?

2. $10 \times 6 = 60$

What is 9×6 ? What is 5×6 ?

3. $8 \times 5 = 40$

What is 16×5 ? What is 17×5 ?

4. $4 \times 9 = 36$

What is 8×9 ? What is 6×9 ? What is 14×9 ?

5. $6 \times 6 = 36$.

What is 12×6 ? What is 18×6 ?

Section C

Build up the answers to each question using the multiplication facts given **only**. *You're not allowed to use any other multiplication knowledge!*

1. $10 \times 5 = 50$, $2 \times 5 = 10$

What is 12×5 ? What is 22×5 ? What is 8×5 ?

2. $10 \times 6 = 60$, $4 \times 6 = 24$

What is 14×6 ? What is 6×6 ? What is 96×6 ?

3. $5 \times 7 = 35$, $2 \times 7 = 14$

What is 7×7 ? What is 3×7 ? What is 47×7 ?

Section D

How could you work out the answers to each of these questions if you couldn't recall the answer? Show how you could work out the answer from a known multiplication fact.

1. 4×7

2. 8×8

3. 9×7

4. 5×5

5. 7×8

Can you think of any other ways that you could do each question?

Section E

Construct the answers to these ‘large’ multiplication questions by using the facts that you know.

1. 22×3

2. 17×4

3. 25×5

4. 37×6

5. 29×8

Extension Activity

Take a pack of digit cards. Remove the 0 and deal out the cards so you have...

$$[] [] \times []$$

Use the multiplication facts that you know to find the answer to the question you have made.

Can you rearrange the three cards to produce a bigger answer? What is the biggest answer that you can make with the three cards that you’ve drawn?

Try it again with another three cards.