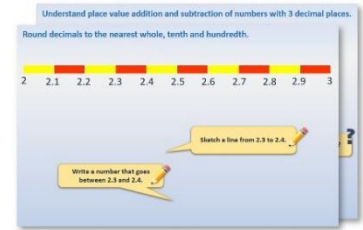


Week 13, Day 1

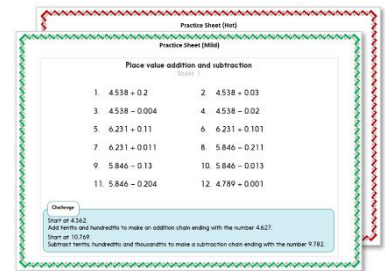
Halves and doubles

Each day covers one maths topic. It should take you about 1 hour or just a little more.

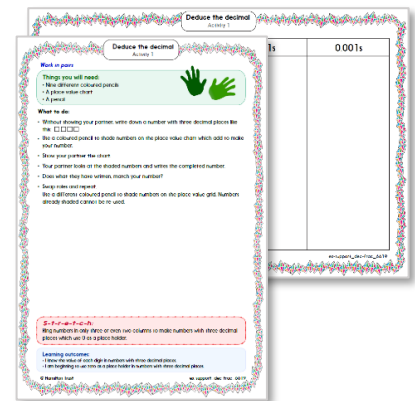
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



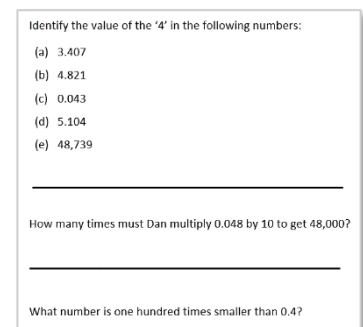
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!



Learning Reminders

Understand doubling and halving as inverses; double and halve two digit numbers.

How many bricks in
one row?

How many in two
rows?



Double 10 is 20.
 $10 \times 2 = 20.$

Half of 20 is 10.
 $20 \div 2 = 10.$

Learning Reminders

Understand doubling and halving as inverses; double and halve two digit numbers.

How many bricks in
one row?

How many in two
rows?



Double 14 is 28.

$$14 \times 2 = 28.$$

Half of 28 is 14.

$$28 \div 2 = 14.$$

Halving is the **opposite,**
or **inverse,** of doubling.

Remember that **doubling** is
the same as **multiplying by 2,**
and **halving** is the same as
dividing by 2.

Learning Reminders

Understand doubling and halving as inverses; double and halve two digit numbers.

Write the answers.



What is **double 5**?

What is **half of 10**?

What is **double 11**?

What is **half of 22**?

What is **half of 8**?

What is **double 4**?

Answers

Double 4 is 8.

Half of 8 is 4.

Half of 22 is 11.

Double 11 is 22.

Half of 10 is 5.

Double 5 is 10.

Practice Sheet Mild

Doubles and halves

1. Double 12 is

Half of is 12.



2. Double is 18

Half of 18 is



3. Double 15 is

Half of is 15.

4. Double 20 is

Half of is 20.

5. Double 24 is

Half of is 24.

6. Double is 26

Half of 26 is

7. Double is 28

Half of 28 is

8. Double is 40

Half of 40 is

Challenge

Write halving facts to go with these doubles. Double 32 is Double 26 is

Practice Sheet Hot

Doubles and Halves

1. Double 16 is

Half of is 16.

2. Double 21 is

Half of is 21.

3. Double 25 is

Half of is 25.

4. Double is 30

Half of 30 is

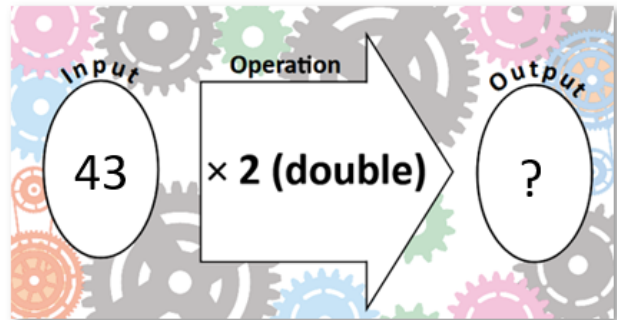
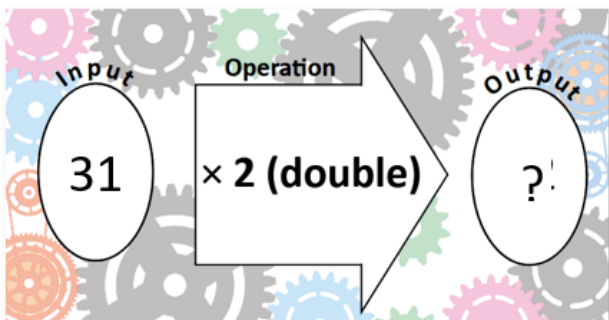
5. Double is 38

Half of 38 is

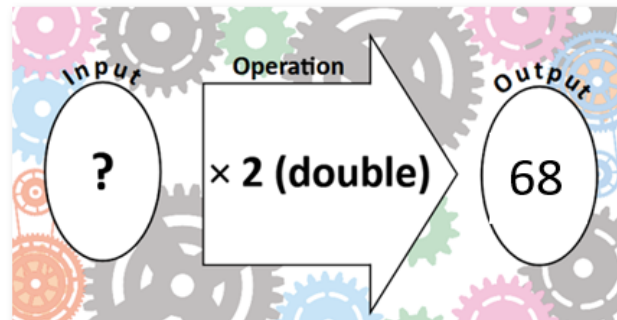
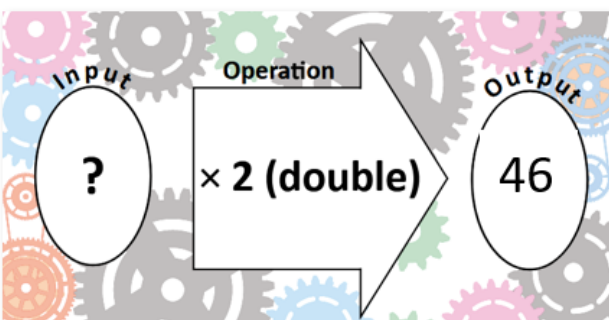
6. Double is 100

Half of 100 is

Work out what numbers **come out of** these doubling machines:



Work out what numbers **went into** these doubling machines:



Practice Sheet Answers (mild)

Doubles and halves

1. Double 12 is **24**

Half of **24** is 12.



2. Double **9** is 18

Half of 18 is **9**



3. Double 15 is **30**

Half of **30** is 15.

4. Double 20 is **40**

Half of **40** is 20.

5. Double 24 is **48**

Half of **48** is 24.

6. Double **13** is 26

Half of 26 is **13**

7. Double **14** is 28

Half of 28 is **14**

8. Double **20** is 40

Half of 40 is **20**

Challenge

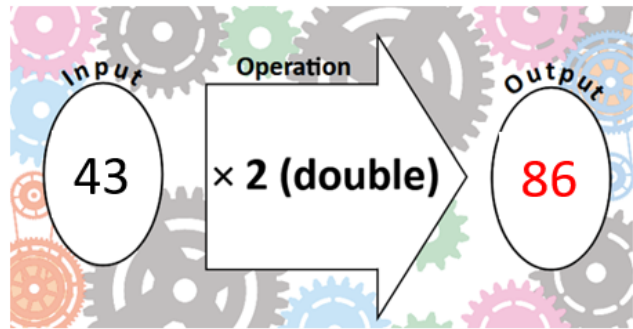
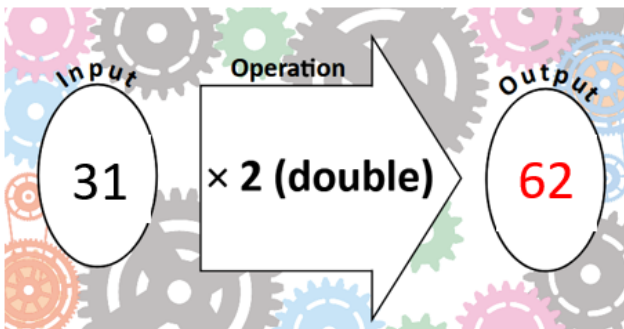
Write halving facts to go with these doubles. Double 32 is 64. Half of 64 is 32. Double 26 is 52. Half of 52 is 26.

Practice Sheet Answers (hot)

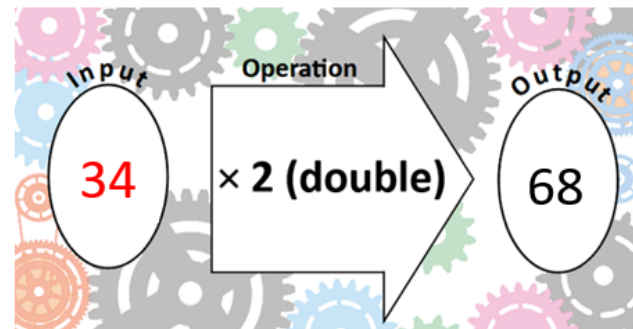
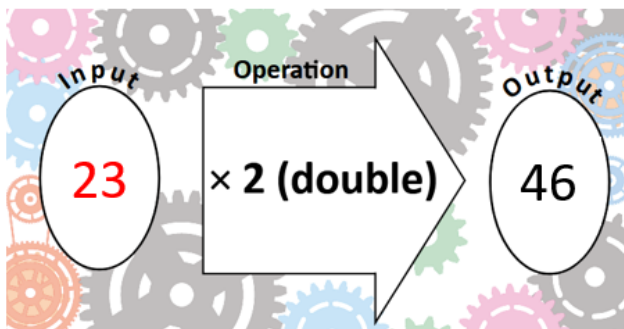
Doubles and halves

- Double 16 is **32** Half of **32** is 16.
- Double 21 is **42** Half of **42** is 21.
- Double 25 is **50** Half of **50** is 25.
- Double **15** is 30 Half of 30 is **15**
- Double **19** is 38 Half of 38 is **19**
- Double **50** is 100 Half of 100 is **50**

Work out what numbers **come out of** these doubling machines:



Work out what numbers **went into** these doubling machines:



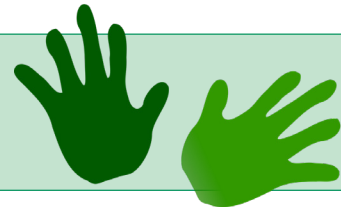
A Bit Stuck?

Double your money

Work in pairs

Things you will need:


- 10p and 1p coins
- A pencil



What to do:

- Use 10p and 1p coins to double each amount of money.

12p  Double  p

15p  Double  p

14p  Double  p

16p  Double  p

19p  Double  p

20p  Double  p

S-t-r-e-t-c-h:

Choose two amounts between 20p and 30p to double.

Learning outcomes:

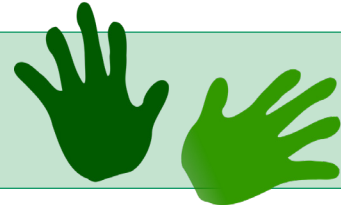
- I can double numbers 11 to 20 using coins.
- I am beginning to double numbers between 20 and 30.

A Bit Stuck? Fair or not fair

Work in pairs

Things you will need:

- 10p and 1p coins
- A pencil



What to do:

- Investigate which amounts from 20p to 30p can be shared fairly between you. Each person must have half each.
- Write half of any amount which can be shared equally using coins.

Half of 20p is 10p
21p No, can't be shared fairly
Half of 22p is <input type="checkbox"/>

S-t-r-e-t-c-h:

Investigate which amounts from 31p to 40p can be halved.

Learning outcomes:

- I can halve even numbers from 20 to 30.
- I am beginning to halve even numbers from 30 to 40.

Check your understanding

Questions

Write the missing halves/ doubles:

40	
?	?

18	
?	?

?	
25	25

How much would 2 yoghurts cost at 42p each?

A pack of 2 fruit pots costs 68p. How much does each fruit pot cost?

Fold here to hide answers

Check your understanding

Answers

Write the missing halves/ doubles:

40	
20	20

18	
9	9

50	
25	25

How much would 2 yoghurts cost at 42p each? **84p**

A pack of 2 fruit pots costs 68p. How much does each fruit pot cost? **34p**