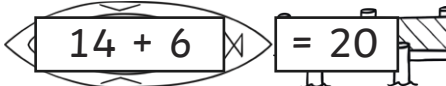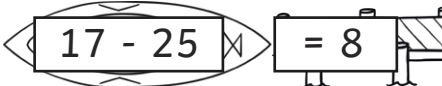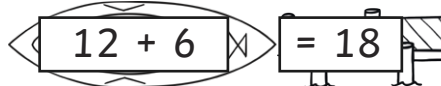# Turn Around

I can explain why addition is commutative but subtraction is not.
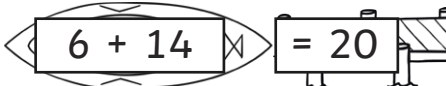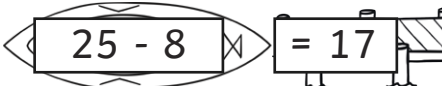
These number sentences have been turned around but some of them are now incorrect! Put a cross through the number sentences that are incorrect.

| 14 + 6 | = 20 | | 17 - 25 | = 8 | | 12 + 6 | = 18 |

| 6 + 14 | = 20 | | 25 - 8 | = 17 | | 12 - 6 | = 18 |

| 14 - 6 | = 20 | | 17 + 8 | = 25 | | 18 - 6 | = 12 |

| 20 - 14 | = 6 | | 8 + 17 | = 25 | | 6 + 12 | = 18 |

Write the number sentences on the boats for each of the part-whole diagrams. Get your partner to use equipment to check your number sentences.

37
14   23

34
26   8

48
16   32

= 37

= 37

37 =

=

= 34

= 34

34 =

=

= 48

=

=

=

Use equipment to explain why addition is commutative.
Use equipment to explain why subtraction is not commutative.

Answers

These number sentences have been turned around but some of them are now incorrect! Put a cross through the number sentences that are incorrect.

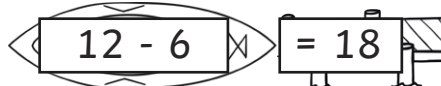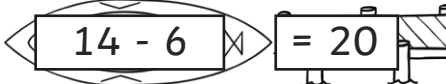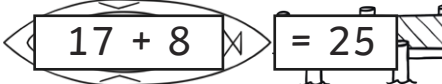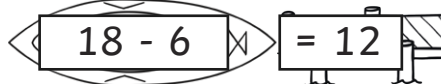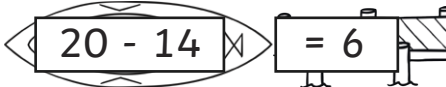14 + 6 = 20
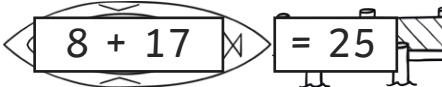
~~17 - 25 = 8~~
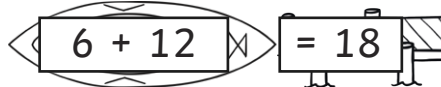
12 + 6 = 18

6 + 14 = 20
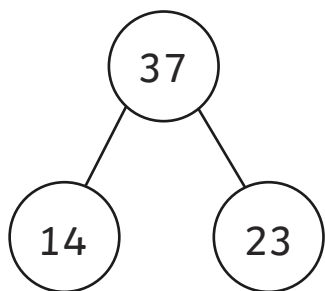
25 - 8 = 17

~~12 - 6 = 18~~

~~14 - 6 = 20~~
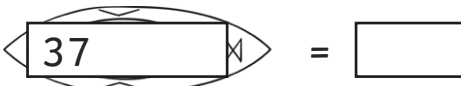
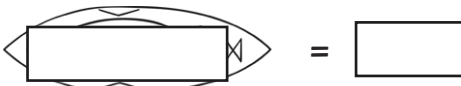17 + 8 = 25

18 - 6 = 12

20 - 14 = 6

8 + 17 = 25

6 + 12 = 18

Write the number sentences on the boats for each of the part-whole diagrams. Get your partner to use equipment to check your number sentences.
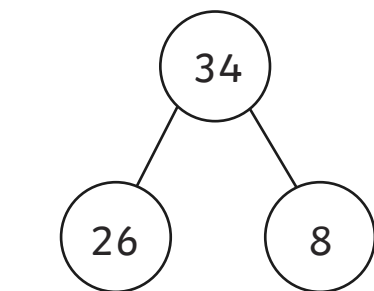
37
14   23

34
26   8

48
16   32

14 + 23 = 37

26 + 8 = 34

16 + 32 = 48

23 + 14 = 37

8 + 26 = 34

32 + 16 = 48

37 – 23 = 14

34 – 8 = 26

48 – 32 = 16

37 – 14 = 23

34 – 26 = 8

48 – 16 = 32

Turn Around

I can explain why addition is commutative but subtraction is not.

These number sentences have been turned around but some of them are now incorrect! Put a cross through the number sentences that are incorrect. Use equipment to explain how you know.

14 + 6	= 20	17 - 25	= 8	12 + 6	= 18
6 + 14	= 20	25 - 8	= 17	12 - 6	= 18
14 - 6	= 20	17 + 8	= 25	18 - 6	= 12
20 - 14	= 6	8 + 17	= 25	6 + 12	= 18

Write the number sentences on the boats for each of the part-whole diagrams. Get your partner to use equipment to check your number sentences.
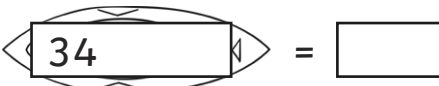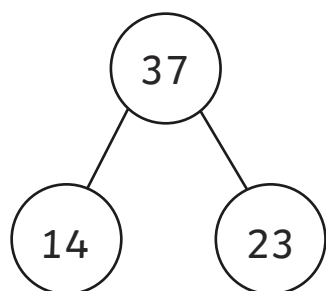
24 — 9, 15

28 — 12, 16

35 — 6, 29

[ ] = 24

[ ] = [ ]   [ ] = [ ]   [ ] = [ ]

[ ] = [ ]   [ ] = [ ]   [ ] = [ ]

[ ] = [ ]   [ ] = [ ]   [ ] = [ ]

[ ] = [ ]   [ ] = [ ]   [ ] = [ ]

Use equipment to explain why addition is commutative.
Use equipment to explain why subtraction is not commutative.

Answers

These number sentences have been turned around but some of them are now incorrect! Put a cross through the number sentences that are incorrect. Use equipment to explain how you know.

14 + 6	= 20	~~17 - 25~~	~~= 8~~	12 + 6	= 18
6 + 14	= 20	25 - 8	= 17	~~12 - 6~~	~~= 18~~
~~14 - 6~~	~~= 20~~	17 + 8	= 25	18 - 6	= 12
20 - 14	= 6	8 + 17	= 25	6 + 12	= 18

Write the number sentences on the boats for each of the part-whole diagrams. Get your partner to use equipment to check your number sentences.
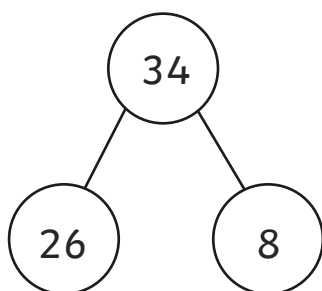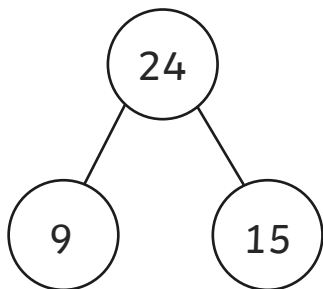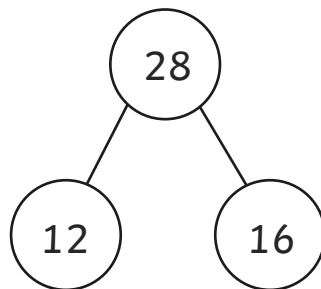
24
9   15

28
12   16

35
6   29

9 + 15	= 24	12 + 16	=	28	35	=	29 + 6
15 + 9	=	24	16 + 12	=	28	35	=	6 + 29
24 − 15	=	9	28 − 12	=	16	29	=	35 − 6
24 − 9	=	15	28 − 16	=	12	6	=	35 − 29

Turn Around

I can explain why addition is commutative but subtraction is not.

These number sentences have been turned around but some of them are now incorrect! Put a cross through the number sentences that are incorrect. Use equipment to explain how you know. Write in the correct number sentence to complete the fact family.

54 - 36	= 90		46 + 28	= 74		35 + 29	64
36 + 54	= 90		74 - 28	= 46		64 - 29	= 35
54 + 36	90		46 - 74	= 28		29 + 35	= 64
90 - 54	= 36		28 + 46	= 74		35 - 64	= 29

Write number sentences on the boats for the part-whole diagram. Find 2 different ways to complete the other part whole diagrams and write sentences to match them. Get your partner to use equipment to check your number sentences.

39
18   21

39

39
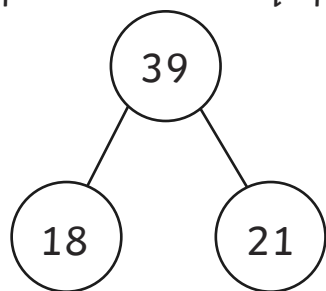
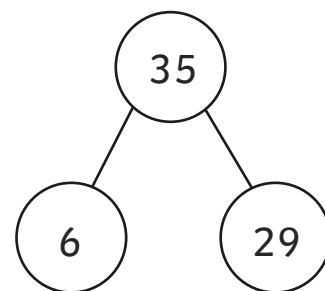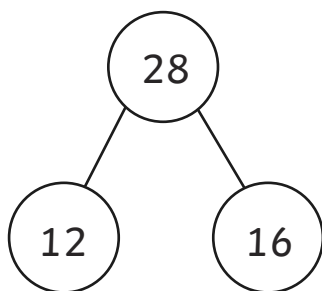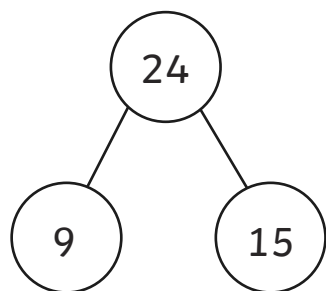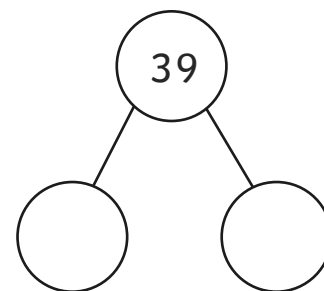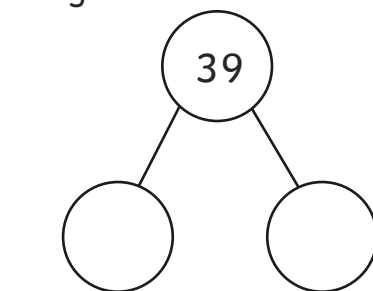Use equipment to explain why addition is commutative.
Use equipment to explain why subtraction is not commutative.

Answers

These number sentences have been turned around but some of them are now incorrect! Put a cross through the number sentences that are incorrect. Use equipment to explain how you know. Write in the correct number sentence to complete the fact family.

~~54 - 36 = 90~~

36 + 54 = 90

54 + 36 = 90

90 - 54 = 36

90 – 36 = 54

46 + 28 = 74

74 - 28 = 46

~~46 - 74 = 28~~

28 + 46 = 74

74 – 46 = 28

35 + 29 = 64

64 - 29 = 35
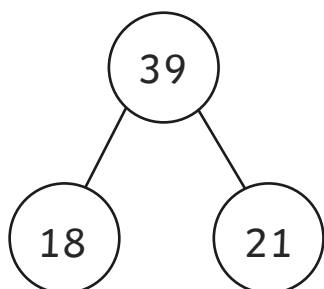
29 + 35 = 64

~~35 - 64 = 29~~

64 – 35 = 29

Write number sentences on the boats for the part-whole diagram. Find 2 different ways to complete the other part whole diagrams and write sentences to match them. Get your partner to use equipment to check your number sentences.

39

18   21

18 + 21 = 39

21 + 18 = 39

39 – 18 = 21

39 – 21 = 18

Other sentences will vary depending on the numbers chosen.