Lesson 1 – Multiplication & Division – Comparing Statements

NC Objective:
Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.

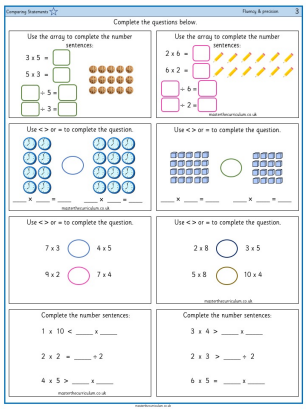
Resources needed:
Differentiated Sheets
Teaching Slides

Vocabulary:
Multiplication division, compare, inequality symbols, arrays, repeated addition, number sentence, times tables

Children use their knowledge of multiplication and division facts to compare statements using inequality symbols.
It is important that children are exposed to a variety of representations of multiplication and division, including arrays and repeated addition.

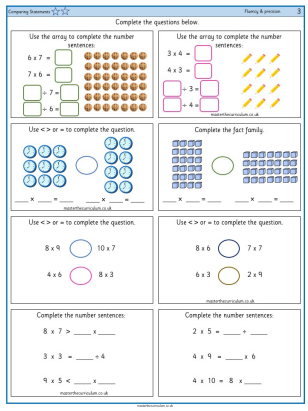
Key Questions:
What other number sentences does the array show?
If you know your 4 times-table, how can you use this to work out your 8 times-table?
What's the same and what's different about 8 × 3 and 7 × 4?

★ Working Towards



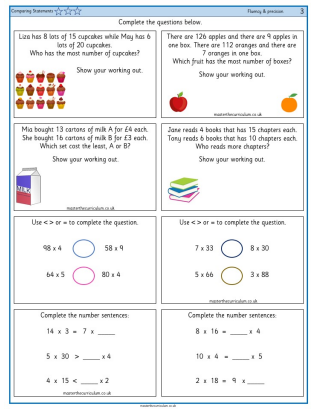
Children use arrays and repeated numbers to complete the questions.
They use inequality symbols, (>) for "greater than', (<) 'less than' and (=) for 'equal to'.
They fill in the blanks to complete the number sentences.
Children on this sheet mainly work within 2, 5 and 10 times tables.

★★ Working Within



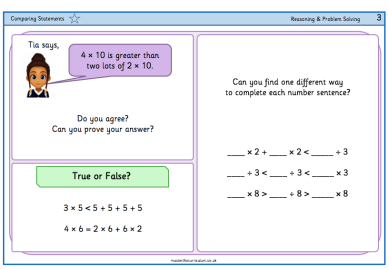
Children apply their knowledge of multiplication and division facts to compare statements. They learn to use inequality symbols for comparison statements.
They fill in the blanks to complete the number sentences.
Children work within a range of times tables.

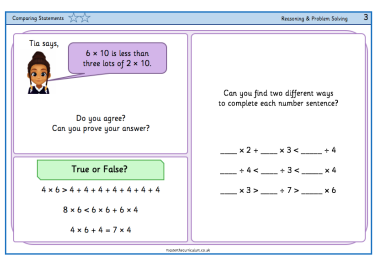
★★★ Greater Depth

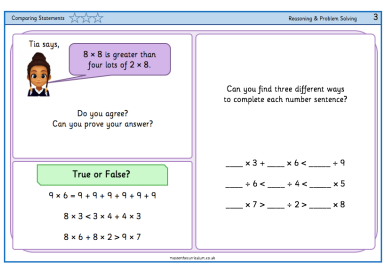


In this sheet, there are word problems that require students to solve each situation then compare.
They use their knowledge of multiplication and division to fill in the blanks to complete the sentences.

Reasoning & Problem Solving







Complete the questions below.

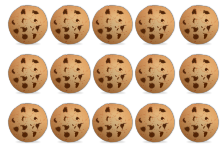
Use the array to complete the number sentences:

3 x 5 = ☐

5 x 3 = ☐

☐ ÷ 5 = ☐

☐ ÷ 3 = ☐



Use the array to complete the number sentences:

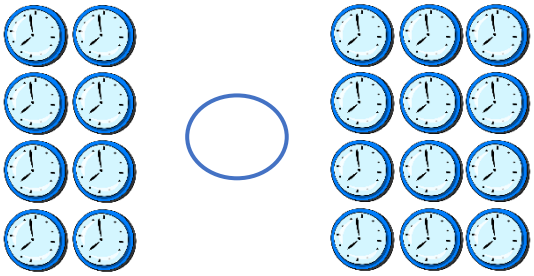
2 x 6 = ☐

6 x 2 = ☐

☐ ÷ 6 = ☐

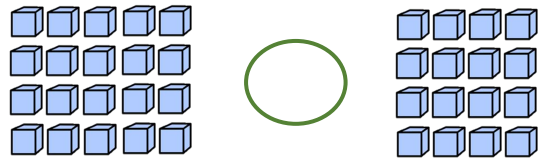
☐ ÷ 2 = ☐

Use < > or = to complete the question.



____ × ____ = ____ ____ × ____ = ____

Use < > or = to complete the question.



____ × ____ = ____ ____ × ____ = ____

Use < > or = to complete the question.

7 x 3 ◯ 4 x 5

9 x 2 ◯ 7 x 4

Use < > or = to complete the question.

2 x 8 ◯ 3 x 5

5 x 8 ◯ 10 x 4

Complete the number sentences:

1 x 10 < _____ x _____

2 x 2 = _____ ÷ 2

4 x 5 > _____ x _____

Complete the number sentences:

3 x 4 > _____ x _____

2 x 3 > _____ ÷ 2

6 x 5 = _____ x _____

Complete the questions below.

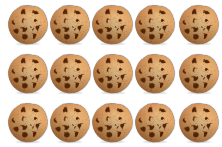
Use the array to complete the number sentences:

3 x 5 = 15

5 x 3 = 15

15 ÷ 5 = 3

15 ÷ 3 = 5



Use the array to complete the number sentences:

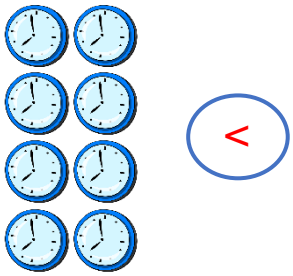
2 x 6 = 12

6 x 2 = 12

12 ÷ 6 = 2

12 ÷ 2 = 6

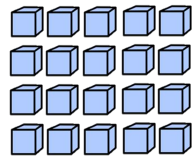
Use < > or = to complete the question.



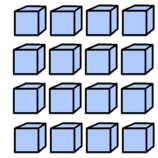
2 × 4 = 8

3 × 4 = 12

Use < > or = to complete the question.



4 × 5 = 20



4 × 4 = 16

Use < > or = to complete the question.

7 x 3 > 4 x 5

9 x 2 < 7 x 4

Use < > or = to complete the question.

2 x 8 > 3 x 5

5 x 8 = 10 x 4

Examples

Complete the number sentences:

1 x 10 < 2 x 6

2 x 2 = 8 ÷ 2

4 x 5 > 3 x 6

Examples

Complete the number sentences:

3 x 4 > 2 x 4

2 x 3 > 10 ÷ 2

6 x 5 = 5 x 6

Complete the questions below.

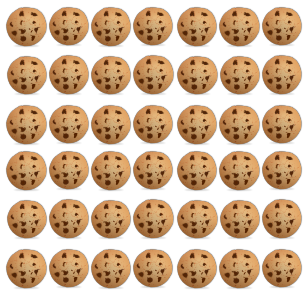
Use the array to complete the number sentences:

6 x 7 = ☐

7 x 6 = ☐

☐ ÷ 7 = ☐

☐ ÷ 6 = ☐



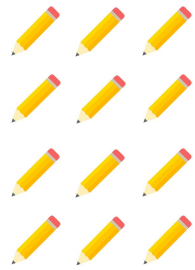
Use the array to complete the number sentences:

3 x 4 = ☐

4 x 3 = ☐

☐ ÷ 3 = ☐

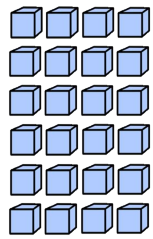
☐ ÷ 4 = ☐

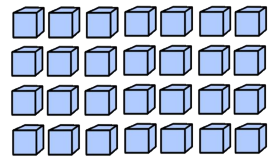


Use < > or = to complete the question.

____ × ____ = ____ ____ × ____ = ____

Complete the fact family.





____ × ____ = ____ ____ × ____ = ____

Use < > or = to complete the question.

8 x 9 ☐ 10 x 7

4 x 6 ☐ 8 x 3

Use < > or = to complete the question.

8 x 6 ☐ 7 x 7

6 x 3 ☐ 2 x 9

Complete the number sentences:

8 x 7 > ____ x ____

3 x 3 = ____ ÷ 4

9 x 5 < ____ x ____

Complete the number sentences:

2 x 5 = ____ ÷ ____

4 x 9 = ____ x 6

4 x 10 = 8 x ____

Complete the questions below.

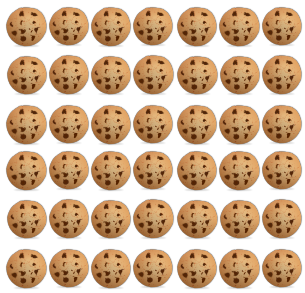
Use the array to complete the number sentences:

6 x 7 = 42

7 x 6 = 42

42 ÷ 7 = 6

42 ÷ 6 = 7



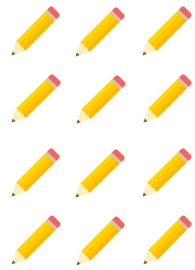
Use the array to complete the number sentences:

3 x 4 = 12

4 x 3 = 12

12 ÷ 3 = 4

12 ÷ 4 = 3



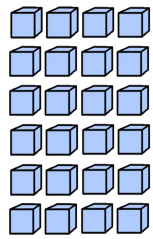
Use < > or = to complete the question.

3 × 3 = 9

>

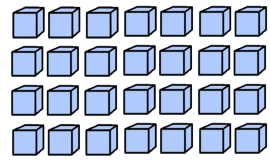
2 × 4 = 8

Complete the fact family.



4 × 6 = 24

<



4 × 7 = 28

Use < > or = to complete the question.

8 x 9 > 10 x 7

4 x 6 = 8 x 3

Use < > or = to complete the question.

8 x 6 < 7 x 7

6 x 3 = 2 x 9

Examples Complete the number sentences:

8 x 7 > 7 x 7

3 x 3 = 36 ÷4

9 x 5 < 9 x 6

Examples Complete the number sentences:

2 x 5 = 60 ÷ 6

4 x 9 = 6 x 6

4 x 10 = 8 x 5

Complete the questions below.

Liza has 8 lots of 15 cupcakes while May has 6 lots of 20 cupcakes.
Who has the most number of cupcakes?

Show your working out.

There are 126 apples and there are 9 apples in one box. There are 112 oranges and there are 7 oranges in one box.
Which fruit has the most number of boxes?

Show your working out.

Mia bought 13 cartons of milk A for £4 each.
She bought 16 cartons of milk B for £3 each.
Which set cost the least, A or B?

Show your working out.

Jane reads 4 books that has 15 chapters each.
Tony reads 6 books that has 10 chapters each.
Who reads more chapters?

Show your working out.

Use < > or = to complete the question.

98 x 4 ◯ 58 x 9

64 x 5 ◯ 80 x 4

Use < > or = to complete the question.

7 x 33 ◯ 8 x 30

5 x 66 ◯ 3 x 88

Complete the number sentences:

14 x 3 = 7 x _____

5 x 30 > _____ x 4

4 x 15 < _____ x 2

Complete the number sentences:

8 x 16 = _____ x 4

10 x 4 = _____ x 5

2 x 18 = 9 x _____

Complete the questions below.

Liza has 8 lots of 15 cupcakes while May has 6 lots of 20 cupcakes.
Who has the most number of cupcakes?

Show your working out.
Liza: 8 x 15 = 120
May: 6 x 20 = 120
Therefore, they both have the same number of cupcakes.

There are 126 apples and there are 9 apples in one box. There are 112 oranges and there are 7 oranges in one box.
Which fruit has the most number of boxes?

Show your working out.
Apples: 126 ÷ 9 = 14
Oranges: 112 ÷ 7 = 16
Therefore, there are more boxes of oranges.

Mia bought 13 cartons of milk A for £4 each.
She bought 16 cartons of milk B for £3 each.
Which set cost the least, A or B?

Show your working out.
Milk A : 13 x 4 = £52
Milk B : 16 x 3 = £48
Therefore, Mia paid less for Milk B.

Jane reads 4 books that has 15 chapters each.
Tony reads 6 books that has 10 chapters each.
Who reads more chapters?

Show your working out.
Jane : 15 x 4 = 60
Tony : 10 x 6 = 60
Therefore, they both read the same number of chapters.

Use < > or = to complete the question.

98 x 4 < 58 x 9

64 x 5 = 80 x 4

Use < > or = to complete the question.

7 x 33 < 8 x 30

5 x 66 > 3 x 88

Complete the number sentences:

14 x 3 = 7 x 6

5 x 30 > 30 x 4

4 x 15 < 32 x 2

Complete the number sentences:

8 x 16 = 32 x 4

10 x 4 = 8 x 5

2 x 18 = 9 x 4

Tia says,

4 × 10 is greater than two lots of 2 × 10.

Do you agree?
Can you prove your answer?

True or False?

$3 \times 5 < 5 + 5 + 5 + 5$

$4 \times 6 = 2 \times 6 + 6 \times 2$

Can you find a way to complete each number sentence?

____ × 2 + ____ × 2 < 12 ÷ 3

____ × 2 + ____ × 2 > 12 ÷ 3

____ × 5 + ____ × 5 > 40 ÷ 10

Comparing Statements ☆ Reasoning & Problem Solving 3

Tia says,

4 × 10 is greater than two lots of 2 × 10.

Do you agree?
Can you prove your answer?

True or False?

$3 \times 5 < 5 + 5 + 5 + 5$

$4 \times 6 = 2 \times 6 + 6 \times 2$

Can you find a way to complete each number sentence?

____ × 2 + ____ × 2 < 12 ÷ 3

____ × 2 + ____ × 2 > 12 ÷ 3

____ × 5 + ____ × 5 > 40 ÷ 10

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Tia says,

4 × 10 is greater than two lots of 2 × 10.

Do you agree?
Can you prove your answer?

Possible answer: She is wrong because they are equal.

True or False?

3 × 5 < 5 + 5 + 5 + 5 — True
15 20

4 × 6 = 2 × 6 + 6 × 2 — True
24 12 + 12 = 24

Can you find a way to complete each number sentence?

Possible answers include:

1 × 2 + 0 × 2 < 12 ÷ 3
4

5 × 2 + 3 × 2 > 12 ÷ 3
4

4 × 5 + 4 × 5 > 40 ÷ 10
4

Comparing Statements ☆ Answers Reasoning & Problem Solving 3

Tia says,

4 × 10 is greater than two lots of 2 × 10.

Do you agree?
Can you prove your answer?

Possible answer: She is wrong because they are equal.

True or False?

3 × 5 < 5 + 5 + 5 + 5 — True
15 20

4 × 6 = 2 × 6 + 6 × 2 — True
24 12 + 12 = 24

Can you find a way to complete each number sentence?

Possible answers include:

1 × 2 + 0 × 2 < 12 ÷ 3
4

5 × 2 + 3 × 2 > 12 ÷ 3
4

4 × 5 + 4 × 5 > 40 ÷ 10
4

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Tia says,

6 × 10 is less than three lots of 2 × 10.

Do you agree?
Can you prove your answer?

True or False?

4 × 6 > 4 + 4 + 4 + 4 + 4 + 4 + 4

8 × 6 < 6 × 6 + 6 × 4

4 × 6 + 4 = 7 × 4

Can you find a way to complete each number sentence?

____ × 2 + ____ × 2 < _____ ÷ 3

____ ÷ 3 < ____ ÷ 3 < _____ × 3

____ × 8 > ____ ÷ 8 > _____ × 8

Comparing Statements ☆☆ Reasoning & Problem Solving 3

Tia says,

6 × 10 is less than three lots of 2 × 10.

Do you agree?
Can you prove your answer?

True or False?

4 × 6 > 4 + 4 + 4 + 4 + 4 + 4 + 4

8 × 6 < 6 × 6 + 6 × 4

4 × 6 + 4 = 7 × 4

Can you find a way to complete each number sentence?

____ × 2 + ____ × 2 < _____ ÷ 3

____ ÷ 3 < ____ ÷ 3 < _____ × 3

____ × 8 > ____ ÷ 8 > _____ × 8

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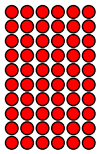
Tia says,

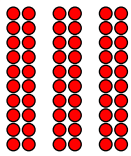
6 × 10 is less than three lots of 2 × 10.

Do you agree?

Can you prove your answer?

Possible answer: She is wrong because they are equal.





True or False?

$4 \times 6 > 4 + 4 + 4 + 4 + 4 + 4 + 4$ False

24 28

$8 \times 6 < 6 \times 6 + 6 \times 4$ True

48 36 + 24 = 60

$4 \times 6 + 4 = 7 \times 4$ True

24 + 4 = 28 28

Can you find a way to complete each number sentence?

Possible answers include:

1 × 2 + 1 × 2 < 15 ÷ 3

9 ÷ 3 < 12 ÷ 3 < 2 × 3

10 × 8 > 72 ÷ 8 > 1 × 8

Comparing Statements ☆☆ Answers Reasoning & Problem Solving 3

Tia says,

6 × 10 is less than three lots of 2 × 10.

Do you agree?

Can you prove your answer?

Possible answer: She is wrong because they are equal.

True or False?

4 × 6 > 4 + 4 + 4 + 4 + 4 + 4 + 4 False

24 28

8 × 6 < 6 × 6 + 6 × 4 True

48 36 + 24 = 60

4 × 6 + 4 = 7 × 4 True

24 + 4 = 28 28

Can you find a way to complete each number sentence?

Possible answers include:

1 × 2 + 1 × 2 < 15 ÷ 3

9 ÷ 3 < 12 ÷ 3 < 2 × 3

10 × 8 > 72 ÷ 8 > 1 × 8

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Tia says,

8 × 8 is greater than four lots of 2 × 8.

Do you agree?
Can you prove your answer?

True or False?

9 × 6 = 9 + 9 + 9 + 9 + 9 + 9

8 × 3 < 3 × 4 + 4 × 3

8 × 6 + 8 × 2 > 9 × 7

Can you find two different ways to complete each number sentence?

____ × 2 + ____ × 3 < _____ ÷ 4

____ ÷ 4 < ____ ÷ 3 < _____ × 4

____ × 3 > ____ ÷ 7 > _____ × 6

Comparing Statements ☆☆☆ Reasoning & Problem Solving 3

Tia says,

8 × 8 is greater than four lots of 2 × 8.

Do you agree?
Can you prove your answer?

True or False?

9 × 6 = 9 + 9 + 9 + 9 + 9 + 9

8 × 3 < 3 × 4 + 4 × 3

8 × 6 + 8 × 2 > 9 × 7

Can you find two different ways to complete each number sentence?

____ × 2 + ____ × 3 < _____ ÷ 4

____ ÷ 4 < ____ ÷ 3 < _____ × 4

____ × 3 > ____ ÷ 7 > _____ × 6

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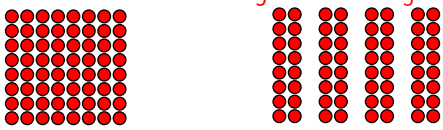
Tia says,

8 × 8 is greater than four lots of 2 × 8.

Do you agree?

Can you prove your answer?

Possible answer: She is wrong because they are equal.



True or False?

9 × 6 = 9 + 9 + 9 + 9 + 9 + 9 — True

54 54

8 × 3 < 3 × 4 + 4 × 3 — False

24 12 + 12 = 24

8 × 6 + 8 × 2 > 9 × 7 — True

48 + 16 = 64 63

Can you find two different ways to complete each number sentence?

____ × 2 + ____ × 3 < ____ ÷ 4

____ ÷ 4 < ____ ÷ 3 < ____ × 4

____ × 3 > ____ ÷ 7 > ____ × 6

Possible answers include:

1 × 2 + 1 × 3 < 24 ÷ 4

1 × 2 + 1 × 3 < 28 ÷ 4

12 ÷ 4 < 12 ÷ 3 < 2 × 4

16 ÷ 4 < 15 ÷ 3 < 2 × 4

4 × 3 > 49 ÷ 7 > 1 × 6

5 × 3 > 56 ÷ 7 > 1 × 6

Comparing Statements ☆☆☆ Answers Reasoning & Problem Solving 3

Tia says,

8 × 8 is greater than four lots of 2 × 8.

Do you agree?

Can you prove your answer?

Possible answer: She is wrong because they are equal.

True or False?

9 × 6 = 9 + 9 + 9 + 9 + 9 + 9 — True

54 54

8 × 3 < 3 × 4 + 4 × 3 — False

24 12 + 12 = 24

8 × 6 + 8 × 2 > 9 × 7 — True

48 + 16 = 64 63

Can you find two different ways to complete each number sentence?

____ × 2 + ____ × 3 < ____ ÷ 4

____ ÷ 4 < ____ ÷ 3 < ____ × 4

____ × 3 > ____ ÷ 7 > ____ × 6

Possible answers include:

1 × 2 + 1 × 3 < 24 ÷ 4

1 × 2 + 1 × 3 < 28 ÷ 4

12 ÷ 4 < 12 ÷ 3 < 2 × 4

16 ÷ 4 < 15 ÷ 3 < 2 × 4

4 × 3 > 49 ÷ 7 > 1 × 6

5 × 3 > 56 ÷ 7 > 1 × 6

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