

EYFS Division

Stages



sharing fairly.

Stage 1:

*"I share 8 sweets between 2 children.
They get 4 sweets each."*



Stage 2:

sorting into
equal groups.

There are 10 children altogether.

*There are 2 in each group. There are 5
groups.*



KSI Division

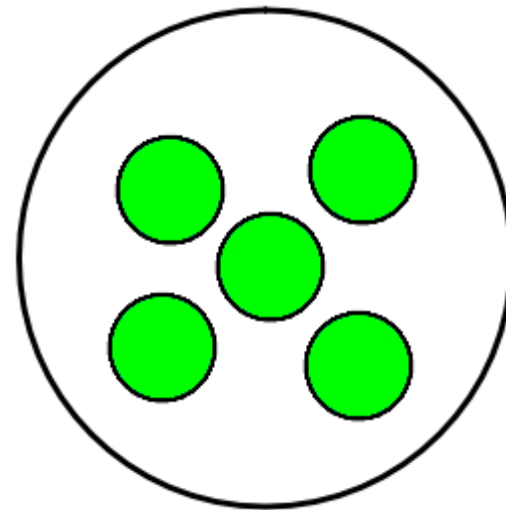
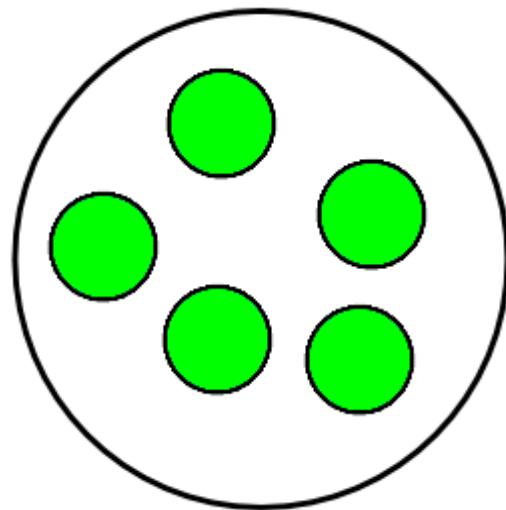
Stages



Stage 3:

sharing objects
equally.

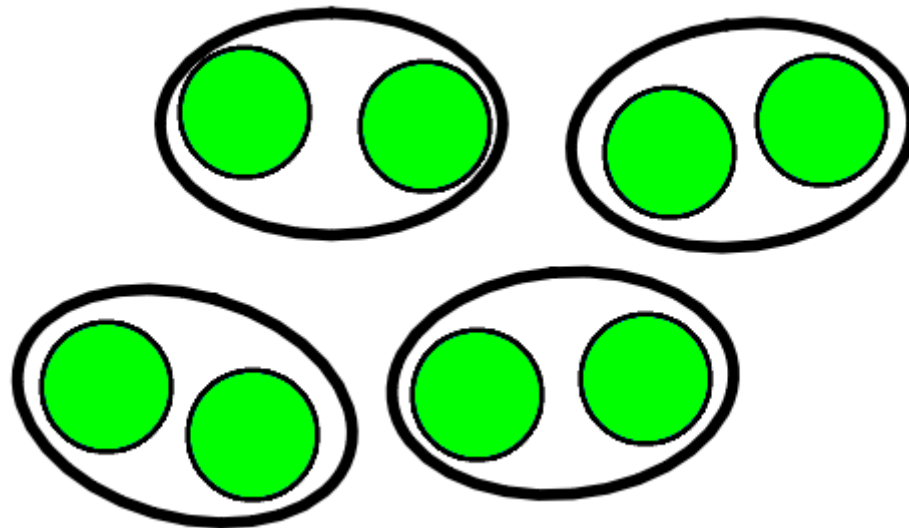
Share 10 into two equal groups.
There are 5 in each group.



Stage 4:

making equal
groups.

How many groups of 2 are
there in 8? 4

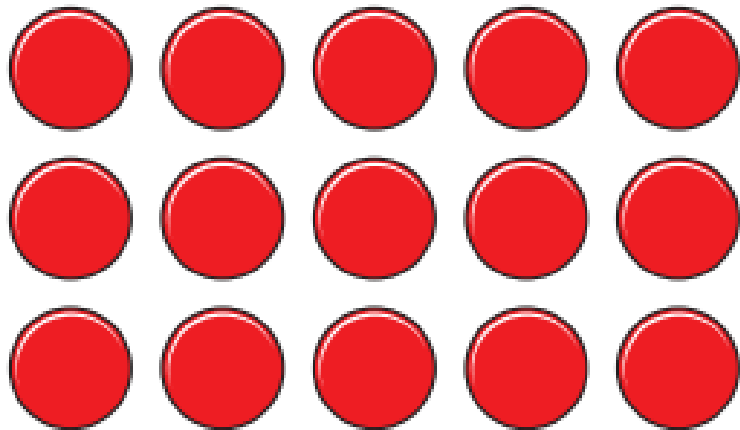


Stage 5:

link division and multiplication.

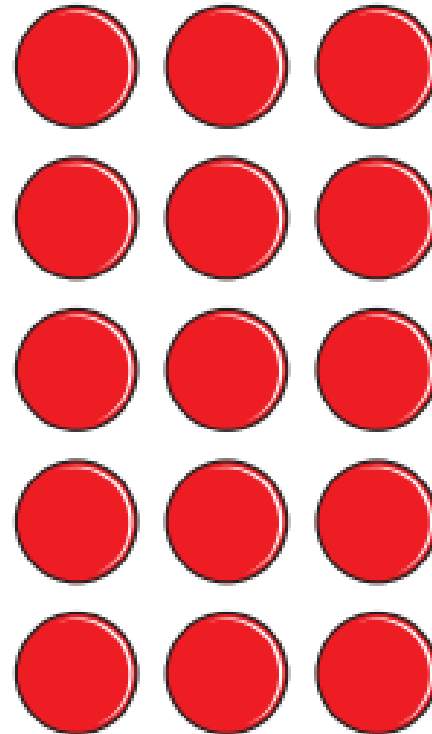
$$5 \times 3 = 15$$

$$15 \div 3 = 5$$



$$3 \times 5 = 15$$

$$15 \div 5 = 3$$



LKS2 Division Stages











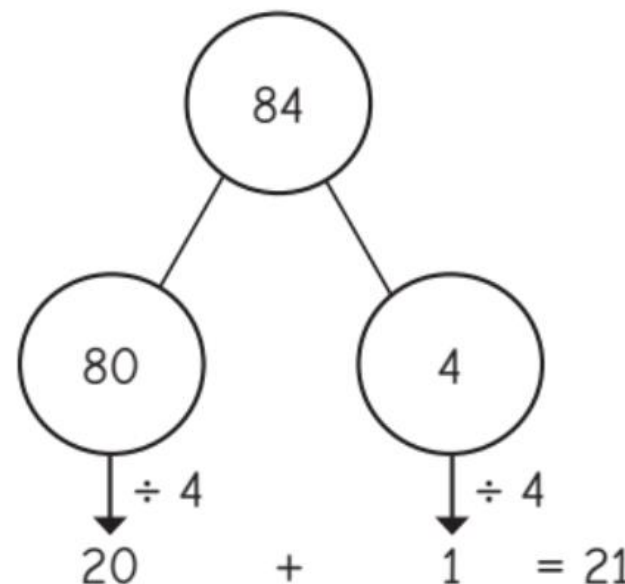
Stage 6:

divide using partitioning
(no exchange).

$$84 \div 4 = 21$$



| Tens | Ones |
|---|---|
|  |  |
|  |  |
|  |  |
|  |  |



Stage 7:

divide using partitioning
(exchange).

$$435 \div 3 = 145$$

| Hundreds | Tens | Ones |
|----------|-------------|-----------|
| 100 | 10 10 10 10 | 1 1 1 1 1 |
| 100 | 10 10 10 10 | 1 1 1 1 1 |
| 100 | 10 10 10 10 | 1 1 1 1 1 |
| 100 | 10 | |

Diagram illustrating the partitioning process for 435 ÷ 3. The number 435 is represented by 4 hundreds (100s), 3 tens (10s), and 5 ones (1s). The hundreds are partitioned into 3 groups of 100 each, and the remaining 100 is exchanged for 10 tens. The tens are then partitioned into 3 groups of 10 each, and the remaining 10 is exchanged for 10 ones. The ones are then partitioned into 3 groups of 5 each, resulting in 145 groups of 100, 145 groups of 10, and 145 groups of 1, which equals 145.



UKS2 Division Stages



Stage 8:

short division
(no exchange).

$$9,639 \div 3 = 3,213$$

| Th | H | T | O |
|-------------------|-------------|----------|-------|
| 1,000 1,000 1,000 | 100 100 100 | 10 10 10 | 1 1 1 |
| 1,000 1,000 1,000 | 100 100 100 | | 1 1 1 |
| 1,000 1,000 1,000 | | | 1 1 1 |

| | | | | |
|---|---|---|---|---|
| | 3 | 2 | 1 | 3 |
| 3 | 9 | 6 | 3 | 9 |



Stage 9:

short division
(exchange).

$$4,892 \div 4 = 1,223$$

| Th | H | T | O |
|---|---|--|---|
| <div><div>1,000</div><div>1,000</div><div>1,000</div><div>1,000</div></div> | <div><div>100</div><div>100</div><div>100</div><div>100</div><div>100</div><div>100</div></div> | <div><div>10</div><div>10</div><div>10</div><div>10</div><div>10</div><div>10</div><div>10</div></div> | <div><div>1</div><div>1</div><div>1</div><div>1</div><div>1</div><div>1</div><div>1</div><div>1</div></div> |

| | | | | |
|---|---|---|---|----------------|
| | 1 | 2 | 2 | 3 |
| 4 | 4 | 8 | 9 | ¹ 2 |



Stage 10:

short division
(2-digit numbers).

$$736 \div 23 = 32$$

| | | | | | | | | | |
|------|---|----|---|-----|---|--|--|--|--|
| (23) | | | | | | | | | |
| 20 | + | 3 | = | 23 | ✓ | | | | |
| 40 | + | 6 | = | 46 | ✓ | | | | |
| 60 | + | 9 | = | 69 | ✓ | | | | |
| 80 | + | 12 | = | 92 | ✓ | | | | |
| 100 | + | 15 | = | 115 | ✓ | | | | |
| 120 | + | 18 | = | 138 | ✓ | | | | |
| 140 | + | 21 | = | 161 | ✓ | | | | |
| 160 | + | 24 | = | 184 | ✓ | | | | |
| 180 | + | 27 | = | 207 | ✓ | | | | |
| 200 | + | 30 | = | 230 | ✓ | | | | |

| | | | | | |
|---|---|--|---|---|---|
| | | | 0 | 3 | 2 |
| 2 | 3 | | 7 | 3 | 6 |



long division.

Stage 11:

$$516 \div 12 = 43$$

| | | | | | |
|---|---|--|----------------|---|-------------|
| | | | 4 | 3 | |
| 1 | 2 | | 4 5 | 1 | 6 |
| | - | | 4 | 8 | ↓ (12 × 40) |
| | | | 0 | 3 | 6 |
| | - | | | 3 | 6 (12 × 3) |
| | | | | 0 | 0 |



division with decimals.

Stage 12:

$$4.26 \div 3 = 1.42$$

| | | | | | | |
|---|--|---|---|---|---|--|
| | | 1 | . | 4 | 2 | |
| 3 | | 4 | . | 2 | 6 | |

$$562 \div 5 = 112.4$$

| | | | | | | | |
|---|--|---|---|---|---|---|--|
| | | 1 | 1 | 2 | . | 4 | |
| 5 | | 5 | 6 | 2 | . | 0 | |



Division Vocabulary

divide into divisible by

divide **X** share

share equally group

divided by



Conceptual Vocabulary

- Division

divided by

$$15 \div 3 = 15$$

dividend

divisor

quotient

