

Good Morning... Do Now Task

1. Write down all of the prime numbers between 20 and 40
2. $12^2 =$
3. $4^3 =$
4. $\sqrt{25} =$
5. $9 \div 3 + 6 =$
6. $(9 \div 3) + 6 =$
7. Write down the first six multiples of 7.

Extension

1. $-100 + 42 =$
2. $100 - 42 =$
3. $-100 - 42 =$
4. $100 + 42 =$



Form Session 3.7

What will I learn today?

How to multiply and divide using negative numbers

Why will I learn it?

To help us get calculations correct!

Key vocabulary for today's lesson:

Negative

Positive



St Anne's
Church of England Academy

The best for everyone
The best from everyone
We have faith in our future

Negative Numbers: Let's do together

Calculate the following:

1. $9 \times 4 =$

2. $9 \times -4 =$

3. $-9 \times 4 =$

4. $-9 \times -4 =$

| | |
|---------------|------------------|
| Rule 1 | $+ \times + = +$ |
| Rule 2 | $+ \times - = -$ |
| Rule 3 | $- \times + = -$ |
| Rule 4 | $- \times - = +$ |

Negative Numbers: Let's do together

Calculate the following:

1. $6 \times -3 =$

2. $-6 \times -3 =$

3. $6 \times 3 =$

4. $-6 \times 3 =$

| | |
|---------------|------------------|
| Rule 1 | $+ \times + = +$ |
| Rule 2 | $+ \times - = -$ |
| Rule 3 | $- \times + = -$ |
| Rule 4 | $- \times - = +$ |

On your whiteboards...

$$9 \times 2 =$$

| | |
|---------------|------------------|
| Rule 1 | $+ \times + = +$ |
| Rule 2 | $+ \times - = -$ |
| Rule 3 | $- \times + = -$ |
| Rule 4 | $- \times - = +$ |

On your whiteboards...

$$-3 \times 4 =$$

| | |
|---------------|------------------|
| Rule 1 | $+ \times + = +$ |
| Rule 2 | $+ \times - = -$ |
| Rule 3 | $- \times + = -$ |
| Rule 4 | $- \times - = +$ |

On your whiteboards...

$$8 \times -5 =$$

| | |
|---------------|------------------|
| Rule 1 | $+ \times + = +$ |
| Rule 2 | $+ \times - = -$ |
| Rule 3 | $- \times + = -$ |
| Rule 4 | $- \times - = +$ |

On your whiteboards...

$$-5 \times -7 =$$

| | |
|---------------|------------------|
| Rule 1 | $+ \times + = +$ |
| Rule 2 | $+ \times - = -$ |
| Rule 3 | $- \times + = -$ |
| Rule 4 | $- \times - = +$ |

On your whiteboards...

$$4 \times -8 =$$

| | |
|---------------|------------------|
| Rule 1 | $+ \times + = +$ |
| Rule 2 | $+ \times - = -$ |
| Rule 3 | $- \times + = -$ |
| Rule 4 | $- \times - = +$ |

Negative Numbers: Let's do together

Calculate the following:

1. $40 \div 10 =$

2. $40 \div -10 =$

3. $-40 \div 10 =$

4. $-40 \div -10 =$

| | |
|---------------|----------------|
| Rule 1 | $+ \div + = +$ |
| Rule 2 | $+ \div - = -$ |
| Rule 3 | $- \div + = -$ |
| Rule 4 | $- \div - = +$ |

Negative Numbers: Let's do together

Calculate the following:

1. $24 \div -6 =$

2. $24 \div 6 =$

3. $-24 \div -6 =$

4. $-24 \div 6 =$

| | |
|---------------|----------------|
| Rule 1 | $+ \div + = +$ |
| Rule 2 | $+ \div - = -$ |
| Rule 3 | $- \div + = -$ |
| Rule 4 | $- \div - = +$ |

On your whiteboards...

$$18 \div 2 =$$

| | |
|---------------|----------------|
| Rule 1 | $+ \div + = +$ |
| Rule 2 | $+ \div - = -$ |
| Rule 3 | $- \div + = -$ |
| Rule 4 | $- \div - = +$ |

On your whiteboards...

$$-36 \div 9 =$$

| | |
|---------------|----------------|
| Rule 1 | $+ \div + = +$ |
| Rule 2 | $+ \div - = -$ |
| Rule 3 | $- \div + = -$ |
| Rule 4 | $- \div - = +$ |

On your whiteboards...

$$48 \div -8 =$$

| | |
|---------------|----------------|
| Rule 1 | $+ \div + = +$ |
| Rule 2 | $+ \div - = -$ |
| Rule 3 | $- \div + = -$ |
| Rule 4 | $- \div - = +$ |

On your whiteboards...

$$-22 \div 11 =$$

| | |
|---------------|----------------|
| Rule 1 | $+ \div + = +$ |
| Rule 2 | $+ \div - = -$ |
| Rule 3 | $- \div + = -$ |
| Rule 4 | $- \div - = +$ |

On your whiteboards...

$$-56 \div -8 =$$

| | |
|---------------|----------------|
| Rule 1 | $+ \div + = +$ |
| Rule 2 | $+ \div - = -$ |
| Rule 3 | $- \div + = -$ |
| Rule 4 | $- \div - = +$ |

On your whiteboards...

$$-22 \div 4 =$$

| | |
|---------------|----------------|
| Rule 1 | $+ \div + = +$ |
| Rule 2 | $+ \div - = -$ |
| Rule 3 | $- \div + = -$ |
| Rule 4 | $- \div - = +$ |

Negative Numbers - You Do

(a) -9×-5

(b) $-32 \div 8$

(c) $66 \div -6$

(d) 2×-12

(e) $-24 \div -3$

(f) -12×7

(g) $-54 \div 6$

(h) -16×-2

(i) 8×-6

(j) -7×-6

(k) $40 \div -8$

(l) $56 \div -7$

(m) $-81 \div -9$

(n) -14×-5

(o) 10×-11

(p) $-65 \div 5$

(q) -90×-3

(r) $-170 \div -10$

(s) $1 \div -1$

(t) -1.5×-3

(u) $-17 \div 2$

(v) 2.2×-10

(w) $-93 \div -10$

(x) -6.2×-3

(y) -9×10.5

(z) $52 \div -5$

Negative Numbers - Mark your answers!

(a) 45

(b) -4

(c) -11

(d) -24

(e) 8

(f) -84

(g) -9

(h) 32

(i) -48

(j) 42

(k) -5

(l) -8

(m) 9

(n) 70

(o) -110

(p) -13

(q) 270

(r) 17

(s) -1

(t) 4.5

(u) -8.5

(v) -22

(w) 9.3

(x) 18.6

(y) -94.5

(z) -10.4