

Slide 1: How would you use the following multiplication fact to explain... factors?

$$4 \times 6 = 24$$

- Which numbers are factors?
- What are you doing with the factors?

Slide 3: By writing different multiplication facts... can you determine other factors of 24?

$$? \times ? = 24$$

Slide 5: How would you use a multiplication chart to help determine the factors of a number?

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

**Slide 7: Compare the multiplication and division statements below.
Can you explain factors of 24 using both operations... \times and \div ?**

$$4 \times 6 = 24$$

$$6 \times 4 = 24$$

$$24 \div 6 = 4$$

$$24 \div 4 = 6$$

**Slide 9: Compare both methods for determining factors of 24... \times and \div
Which method do you prefer?**

$$? \times ? = 24$$

$$24 \div ? = ?$$

Slide 11: Using your preferred method...

- Can you determine the factors for 18?
- How would you teach another student your solution path for determining factors of 18?

Slide 13:

- What are the common factors shared by 24 and 18?
- What is the Greatest Common Factor (GCF) for 24 and 18?
- Can you explain the difference between a common factor and a greatest common factor?

Slide 15: Can you determine the common factors and the GCF for the terms in the following fraction?

$$\frac{12}{32}$$

Slide 17:

What happens if you divide both terms in the fraction $\frac{12}{32}$ by a common factor?

What happens if you divide both terms in the fraction $\frac{12}{32}$ by the GCF?

Slide 20: Can you explain & demonstrate your solution path for reducing a fraction to lowest terms?

Use the fraction $\frac{27}{36}$ to explain and demonstrate your solution path

- ☑ I can describe a factor using multiplication
- ☑ I can describe a factor using division
- ☑ I can identify common factors shared by two or more numbers
- ☑ I can identify the greatest common factor shared by two or more numbers
- ☑ I can explain & demonstrate how I use the GCF to reduce a fraction to lowest terms