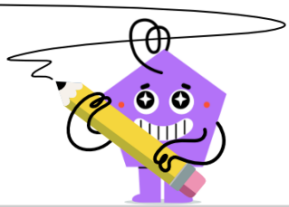
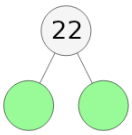
Name

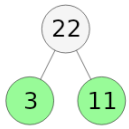


Identify factors of a number

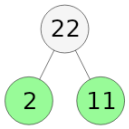
1 Which is a valid factor pair for 22



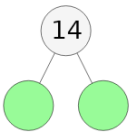
A



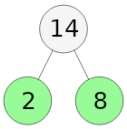
B



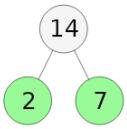
2 Which is a valid factor pair for 14



A



B



3 What are the possible rational roots of this polynomial?

$$f(x) = 2x^3 + 6x^2 - 8x - 24$$

A $\frac{\text{factors of } 24}{\text{factors of } 6}$

B $\frac{\text{factors of } 24}{\text{factors of } 2}$

C $\frac{\text{factors of } 2}{\text{factors of } 24}$

D $\frac{\text{factors of } 6}{\text{factors of } 2}$

4 What are the possible rational roots of this polynomial?

$$f(x) = 3x^3 + 18x^2 + 33x + 18$$

A $\frac{\text{factors of } 18}{\text{factors of } 33}$

B $\frac{\text{factors of } 3}{\text{factors of } 18}$

C $\frac{\text{factors of } 33}{\text{factors of } 3}$

D $\frac{\text{factors of } 18}{\text{factors of } 3}$

5 What are the possible rational roots of this polynomial?

$$f(x) = 2x^3 - 12x^2 + 22x - 12$$

A $\frac{\text{factors of } 22}{\text{factors of } 2}$

B $\frac{\text{factors of } 2}{\text{factors of } 12}$

C $\frac{\text{factors of } 12}{\text{factors of } 22}$

D $\frac{\text{factors of } 12}{\text{factors of } 2}$

6 What are the possible rational roots of this polynomial?

$$f(x) = 3x^4 + 24x^3 + 54x^2 - 81$$

A $\frac{\text{factors of } 3}{\text{factors of } 81}$

B $\frac{\text{factors of } 24}{\text{factors of } 3}$

C $\frac{\text{factors of } 81}{\text{factors of } 3}$

D $\frac{\text{factors of } 81}{\text{factors of } 24}$

7 What are the possible rational roots of this polynomial?

$$f(x) = 4x^4 - 16x^3 - 12x^2 + 40x + 32$$

A $\frac{\text{factors of } 32}{\text{factors of } 4}$

B $\frac{\text{factors of } 16}{\text{factors of } 4}$

C $\frac{\text{factors of } 4}{\text{factors of } 32}$

D $\frac{\text{factors of } 32}{\text{factors of } 16}$

8 What are the possible rational roots of this polynomial?

$$f(x) = 4x^4 - 16x^3 + 12x^2 + 16x - 16$$

A $\frac{\text{factors of } 12}{\text{factors of } 4}$

B $\frac{\text{factors of } 4}{\text{factors of } 16}$

C $\frac{\text{factors of } 16}{\text{factors of } 4}$

D $\frac{\text{factors of } 16}{\text{factors of } 12}$