

Halloween

Algebra





LO: To find unknown values




Find the values of each symbol



 = ?

 = ?

 = ?

$$\text{Frankenstein's head} + \text{Frankenstein's head} + \text{Black cat} = 16$$

$$\text{Mummy} + \text{Mummy} + \text{Black cat} = 20$$

$$\text{Frankenstein's head} + \text{Mummy} + \text{Black cat} = 18$$



Challenge: Design your own puzzle!

**LO: To explore swapping
symbols for values**





FIND THE VALUE OF EACH SYMBOL IF... *

$$\text{bat} + \text{bat} + \text{pumpkin} = 30$$

*

$$\text{If } \text{bat} = 12 \text{ then } \text{pumpkin} = ?$$

$$\text{If } \text{pumpkin} = 12 \text{ then } \text{bat} = ?$$

Challenge: Design your own puzzle!

LO: To use clues to find
missing values



USE THE CLUES TO FIND THE VALUES

 $-$  \times  $= 16$



- prime number
- a factor of 35
- the square root of 49



- a multiple of 3
- a factor of 72
- equivalent to a dozen



- square number
- 3 digits
- years in a century

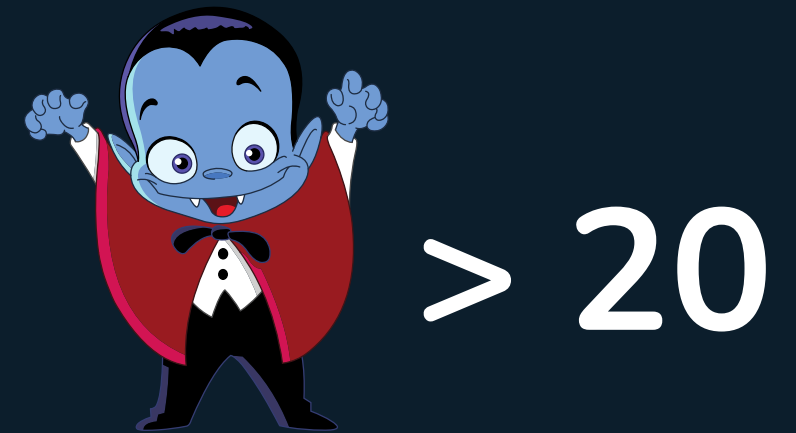
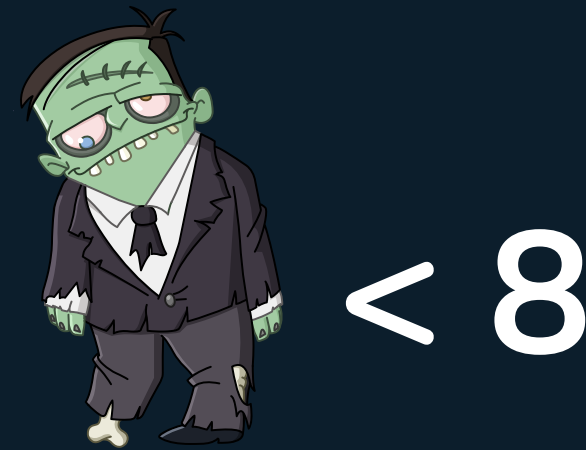


Challenge: Design your own puzzle!

LO: To find all the
possibilities for an unknown
value



Find the possibilities







$+$



$= 20$



$-$



$= 15$

Challenge: Design your own puzzle!

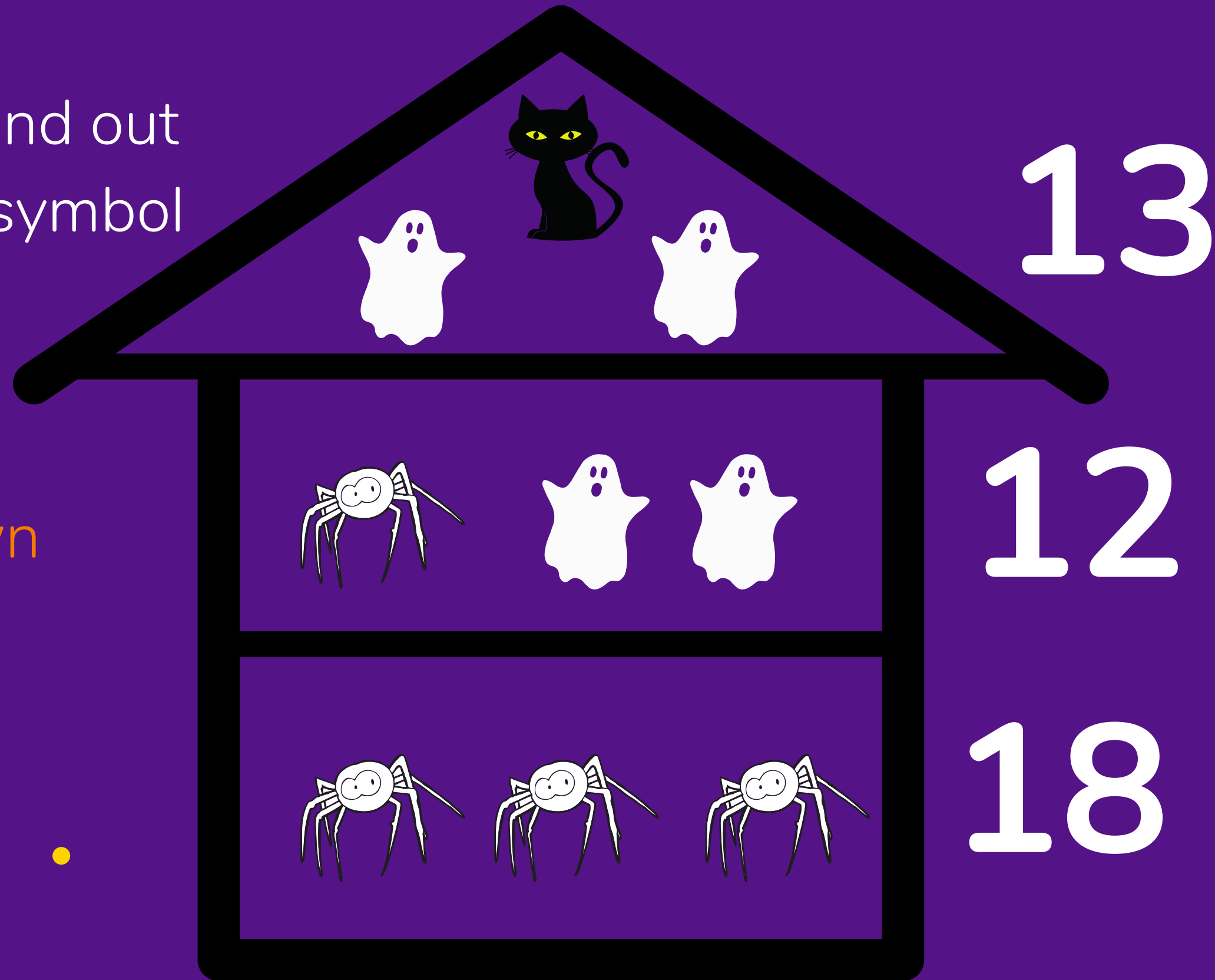
LO: To solve an algebraic
puzzle



FIND THE VALUE OF EACH SYMBOL

Use the totals to find out
the value of each symbol

Challenge:
Design your own
haunted house
algebra puzzle



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Find the values of each symbol









 = 6

 = 4

 = 8

 +  +  = 16

 +  +  = 20

 +  +  = 18



Challenge: Design your own puzzle!



FIND THE VALUE OF EACH SYMBOL IF... *

$$\text{bat} + \text{bat} + \text{pumpkin} = 30$$

*

$$\text{If } \text{bat} = 12 \text{ then } \text{pumpkin} = 6$$

$$\text{If } \text{pumpkin} = 12 \text{ then } \text{bat} = 9$$

Challenge: Design your own puzzle!

USE THE CLUES TO FIND THE VALUES

 $-$  \times  $= 16$



- prime number
- a factor of 35
- the square root of 49



- a multiple of 3
- a factor of 72
- equivalent to a dozen



- square number
- 3 digits
- years in a century

 $= 7$

 $= 12$

 $= 100$

Challenge: Design your own puzzle!

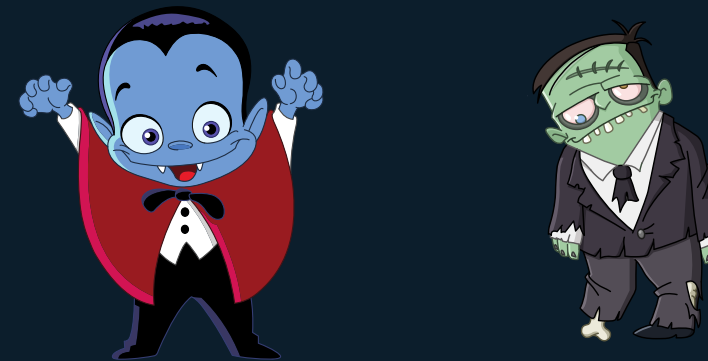
Find the possibilities



>15 > 2

$$16 + 4 = 20$$

$$17 + 3 = 20$$



> 20 < 8

$$21 - 6 = 15$$

$$22 - 7 = 15$$

FIND THE VALUE OF EACH SYMBOL

Use the totals to find out
the value of each symbol

Challenge:
Design your own
haunted house
algebra puzzle



$$\text{Black Cat} = 7$$

$$\text{White Ghost} = 3$$

$$\text{White Spider} = 6$$