



Math Virtual Learning

Algebra IIB

May 13, 2020



Lesson: May 13, 2020

Objective/Learning Target:

Students will work with the addition rule of probability

Bell Ringer

Getting into a mathematical mindset, can you solve this exponential equation:

$$3^{x+2} = 22$$

Bell Ringer

Getting into a mathematical mindset, can you solve this exponential equation:

$$3^{x+2} = 22$$

Answer: .8139

Lesson

Here are two different options to wrap your head around the addition rule of probability. First option is a short [video](#) explaining the concept. Second option is a [site](#) where you can read about it. I recommend doing both to have the best understanding

Practice

Here are a few practice problems to check your understanding. [First Assignment](#) is a interactive assignment which allows you to check your answers as you go. Once you have finished the First Assignment, move on to the next slide and try the problems.

More Practice

Find the probability.

- 5) A magazine contains fourteen pages. You open to a random page. The page number is three or seven.
- 6) A basket contains three apples, three peaches, and four pears. You randomly select a piece of fruit. It is an apple or a peach.
- 7) You roll a fair six-sided die. The die shows an even number or a number greater than three.
- 8) A box contains three red playing cards numbered one to three. The box also contains five black playing cards numbered one to five. You randomly pick a playing card. It is black or has an odd number.

Answers

- 5) A magazine contains fourteen pages. You open to a random page. The page number is three or seven.

$$\frac{1}{7} \approx 0.143$$

- 7) You roll a fair six-sided die. The die shows an even number or a number greater than three.

$$\frac{2}{3} \approx 0.667$$

- 6) A basket contains three apples, three peaches, and four pears. You randomly select a piece of fruit. It is an apple or a peach.

$$\frac{3}{5} = 0.6$$

- 8) A box contains three red playing cards numbered one to three. The box also contains five black playing cards numbered one to five. You randomly pick a playing card. It is black or has an odd number.

$$\frac{7}{8} = 0.875$$