

Ebook free Holt theoretical and experimental probability reteach answers [PDF]

7 1 probability understand how the probability of an event indicates its likelihood i can identify possible outcomes of an experiment i can use probability and relative frequency to describe the likelihood of an event i can use relative frequency to make predictions 7 2 experimental and theoretical probability develop probability subject image created date 9 27 2011 7 22 25 am reteach a compound event includes two or more simple events the possible outcomes of flipping a coin are heads and tails a spinner is divided into 4 equal sections each one a different color the possible outcomes of spinning are red yellow blue and green experimental probability is the actual result of an experiment which may be different from the theoretical probability example you conduct an experiment where you flip a coin 100 times the theoretical probability is 50 heads 50 tails

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outcome of your experiment may be 47 heads 53 tails what is the experimental probability of juarez getting a vote from a person selected at random of the 225 people polled 75 planned to vote for juarez so the experimental probability is $\frac{75}{225} = \frac{1}{3}$ example 3 suppose 5 700 people vote in the election how many can be expected to vote for juarez $\frac{1}{3} \times 5700 = 1900$ 3 reteach experimental probability is an estimate of the probability that a particular event will happen it is called experimental because it is based on data collected from experiments or observations number of times a particular event happens experimental probability $\frac{\text{total number of trials}}{\text{jt is practicing his batting simulate the spinning of the spinner using technology with 170 spins we get a frequency of 42 for blue the experimental probability in this case can be calculated as follows therefore the experimental probability is } \frac{42}{170} \text{ which is even closer to the theoretical probability of } \frac{1}{6}$ years ago experimental probability is the results of an experiment let s say for the sake of an example marbles in a bag experimental probability would be drawing marbles out of the bag and recording the results theoretical probability is calculating the probability of it happening not actually going out and experimenting lesson 2 reteach experimental probability is found

frequencies obtained in an experiment or game theoretical probability is the expected probability of an event occurring the graph shows the results of an experiment in which a number cube was rolled 100 times determine the experimental probability of rolling a 3 for this experiment you can use experimental probability to make predictions a prediction is an estimate or guess about something that has not yet happened 11 2 theoretical and experimental probability probability measures the likelihood of an event or outcome all of the possible outcomes make up the sample space for outcomes that have the same likelihood of occurring or equally likely outcomes the probability of an event e is defined as follows lesson 12 2 experimental probability of simple events reteach experimental probability is an estimate of the probability that a particular event will happen it is called experimental because it is based on data collected from experiments or observations number of times a particular event happens experimental probability reteach class 10 5 experimental probability an experiment is an activity involving chance the sample space of an experiment is the set of all possible outcomes identify the sample space for tossing one coin and rolling one number cube list each possible number with heads and then each possible number with tails

1 h 2 h 3 h the simulation below models the experimental probability of finding shrimp in at least one of the next 5 catches the numbers 1 and 2 represent catches with shrimp making predictions with experimental probability practice and problem solving a b make a prediction based on experimental probability 1 a bowler knocks down at least 6 pins 70 percent of the time out of 200 rolls how many times can you predict the bowler will knock down at least 6 pins compute answers using wolfram s breakthrough technology knowledgebase relied on by millions of students professionals for math science nutrition history overview ever wondered how to teach theoretical and experimental probability in an engaging way to your 7th grade students in this lesson plan students will learn about probability concepts and their real life applications a tree diagram or table is used to show all of the possible outcomes or sample space in a probability experiment reteach the probability p of an event is a ratio it can be written as a fraction decimal or percent p probability of an event the number of outcomes of an event the total number of all events example 1 there are 20 red apples and green apples in a bag the probability of randomly picking a red apple is $\frac{4}{10}$ p a m e r i c o n 1 if something will never happen its probability is 0

impossible if you draw a tile you cannot draw
a q p q 0 the probability of picking a vowel
is as likely as not because there are 4 vowels
and 4 consonants p a vowel 4 1 8 2 vowels
letters picking the letter c is
unlikely because there is

chapter 7

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7 1 probability understand how the probability of an event indicates its likelihood i can identify possible outcomes of an experiment i can use probability and relative frequency to describe the likelihood of an event i can use relative frequency to make predictions 7 2 experimental and theoretical probability develop probability

key to 12 7 experimental probability reteach and practice

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subject image created date 9 27 2011 7 22 25 am

experimental probability of compound events

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reteach a compound event includes two or more simple events the possible outcomes of
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flipping a coin are heads and tails a spinner is divided into 4 equal sections each one a different color the possible outcomes of spinning are red yellow blue and green

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experimental probability is the actual result of an experiment which may be different from the theoretical probability example you conduct an experiment where you flip a coin 100 times the theoretical probability is 50 heads 50 tails the actual outcome of your experiment may be 47 heads 53 tails

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what is the experimental probability of juarez getting a vote from a person selected at random of the 225 people polled 75 planned to vote for juarez so the experimental probability is $\frac{75}{225} = \frac{1}{3}$ example 3 suppose 5700 people vote in the election how many can be expected to vote for juarez last year

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experimental probability of simple events

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relearn experimental probability is an estimate of the probability that a particular event will happen it is called experimental because it is based on data collected from experiments or observations number of times a particular event happens experimental probability total number of trials $P = \frac{\text{number of times event happens}}{\text{total number of trials}}$ jt is practicing his batting

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simulate the spinning of the spinner using technology with 170 spins we get a frequency of 42 for blue the experimental probability in this case can be calculated as follows therefore the experimental probability is $\frac{42}{170} = \frac{21}{85} \approx 0.247$ which is even closer to the theoretical probability of $\frac{1}{4} = 0.25$

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6 years ago experimental probability is the results of an experiment let s say for the sake of an example marbles in a bag experimental probability would be drawing marbles out of the bag and recording the results theoretical probability is calculating the probability of it happening not actually going out and experimenting

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you can use experimental probability to make predictions a prediction is an estimate or guess about something that has not yet happened

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11 2 theoretical and experimental probability probability measures the likelihood of an event or outcome all of the possible outcomes make up the sample space for outcomes that have the same likelihood of occurring or equally likely outcomes the probability of an event e is defined as follows

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the simulation below models the experimental probability of finding shrimp in at least one of the next 5 catches the numbers 1 and 2 represent catches with shrimp

making predictions with experimental probability

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making predictions with experimental
probability practice and problem solving a b
make a prediction based on experimental
probability 1 a bowler knocks down at least 6
pins 70 percent of the time out of 200 rolls
how many times can you predict the bowler will
knock down at least 6 pins

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overview ever wondered how to teach theoretical and experimental probability in an engaging way to your 7th grade students in this lesson plan students will learn about probability concepts and their real life applications

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a tree diagram or table is used to show all of the possible outcomes or sample space in a probability experiment

theoretical probability of simple events

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reteach the probability p of an event is a ratio it can be written as a fraction decimal or percent p probability of an event the number of outcomes of an event the total number of all events example 1 there are 20 red apples and green apples in a bag the probability of randomly picking a red apple is $\frac{4}{20}$

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p a m e r i c o r n 1 if something will never
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letter c is unlikely because there is

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