

9A: Simple Probability + odds (Warmup) ①

Student Name: _____

Score: _____

Balls in a container

Work Space

There are 5 white balls, 8 red balls, 7 yellow balls and 4 green balls in a container. A ball is chosen in random.

What is the probability of choosing red?

Answer: _____

What is the probability of choosing green?

Answer: _____

What is the probability of choosing either red or white?

Answer: _____

What is the probability of choosing neither white nor green?

Answer: _____

What is the probability of choosing other than yellow?

Answer: _____

What is the probability of choosing black?

Answer: _____

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Probability Worksheet

A month is chosen from a year.

Problems

Work Space

Find the probability of selecting March.

Answer: _____

Find the probability of choosing a month starts in M.

Answer: _____

Find the probability of selecting a month starts in either M or J.

Answer: _____

Find the probability of selecting a month starts in A.

Answer: _____

Find the probability of selecting a month with 30 days.

Answer: _____

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Score: _____

Probability Worksheet

There are 25 students in grade 5. 15 are boys and rest of them are girls. A student is selected for a field trip in random. Find the

Problems

Work Space

Probability of selecting a boy Answer: _____	
Probability of selecting a girl Answer: _____	
Odds in favor of boy Answer: _____	
Odds in favor of girl Answer: _____	
Odds against boy and odds in favor of girl are same. Is that right? Answer: _____	

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Score: _____

Deck of Cards Worksheet

A card is drawn from single deck of 52 cards.

Problems

Work Space

Find the probability of drawing black king. Answer: _____	
Find the probability of drawing white queen. Answer: _____	
Find the probability of drawing club. Answer: _____	
Find the probability of drawing heart. Answer: _____	
Find the probability of drawing spade or diamond. Answer: _____	

9A: Simple Probability + odds KEY

(1K)

Student Name: _____ Score: _____

Answers: Work Space

There are 5 white balls, 8 red balls, 7 yellow balls and 4 green balls in a container. A ball is chosen in random.

5 white
8 red
7 yellow = 24 total
4 green

What is the probability of choosing red?
 Answer: $\frac{1}{3}$ $\frac{8}{24} = \frac{1}{3}$

What is the probability of choosing green?
 Answer: $\frac{1}{6}$ $\frac{4}{24} = \frac{1}{6}$

What is the probability of choosing either red or white?
 Answer: $\frac{13}{24}$ $\frac{8+5}{24}$

What is the probability of choosing neither white nor green?
 Answer: $\frac{5}{8}$ $\frac{5 \times 4}{24} = \frac{9}{24} = \frac{3}{8}$

What is the probability of choosing a ball other than yellow?
 Answer: $\frac{17}{24}$ $\frac{17}{24}$

What is the probability of choosing black?
 Answer: 0 $\frac{0}{24}$

(2K)

Student Name: _____ Score: _____

Answers J F M A M J J A S O N D
 31 28 31 30 31 30 31 31 30 31 30 31

Find the probability of selecting March.	
Answer: $\frac{1}{12}$ $\frac{1}{12}$	
Find the probability of choosing a month starts in M.	
Answer: $\frac{1}{6}$ $\frac{2}{12}$	
Find the probability of selecting a month starts in either M or J.	
Answer: $\frac{5}{12}$ $\frac{2+3}{12}$	
Find the probability of selecting a month starts in A.	
Answer: $\frac{1}{6}$ $\frac{2}{12}$	
Find the probability of selecting a month with 30 days.	
Answer: $\frac{1}{3}$ $\frac{4}{12}$	

3K

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Answers

odds = $n(A) : n(\bar{A})$
 ↑ what you want ↑ everything else

Probability of selecting a boy $\frac{15}{25}$ Answer: $\frac{3}{5}$	
Probability of selecting a girl $\frac{10}{25}$ Answer: $\frac{2}{5}$	
Odds in favor of boy 15:10 3:2 Answer: 3:2	
Odds in favor of girl 2:3 Answer: 2:3	
Odds against boy and odds in favor of girl are same. Is that right? yes!	
Answer: yes	

4K

Student Name: _____

Score: _____

Answers

Find the probability of drawing black king. Answer: $\frac{1}{26}$	$P(B) \cdot P(K)$ $\frac{1}{2} \cdot \frac{4}{52} = \frac{2}{52}$
Find the probability of drawing white queen. Answer: 0	
Find the probability of drawing club. Answer: $\frac{1}{4}$	$\frac{13}{52}$
Find the probability of drawing heart. Answer: $\frac{1}{4}$	$\frac{13}{52}$
Find the probability of drawing spade or diamond. Answer: $\frac{1}{2}$	$\frac{13}{52} + \frac{13}{52} = \frac{26}{52}$