MY Homework

Homework Helper

eHelp

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**Jane's new bike can have hand brakes or foot brakes.
The bike can be silver, blue, black, or purple. How
many possible bikes are there?**

1 Understand

There are 2 types of brakes: hand brakes or foot brakes.
There are 4 color choices: silver, blue, black, or purple.

I need to find the number of possible bikes.

2 Plan

Make a table.

	Silver	Blue	Black	Purple
Hand brakes	Hand/Silver	Hand/Blue	Hand/Black	Hand/Purple
Foot brakes	Foot/Silver	Foot/Blue	Foot/Black	Foot/Purple

3 Solve

There are 8 possible bikes.

4 Check

Multiply 2 types of brakes by 4 color choices. $4 \times 2 = 8$

Problem Solving

Real World

1. Solve the problem by making a table.

Claudio will decorate his bedroom. He can
choose tan, blue, or gray paint and striped or
plaid curtains. How many ways can he decorate
his room with different paint and curtains?

6 ways

	tan, (t)	blue, (b)	gray, (g)
striped, (s)	s,t	s,b	s,g
plaid, (p)	p,t	p,b	p,g

Solve each problem by making a table.

2. Jimmy has a number cube labeled 1 through 6, and a penny. How many different ways can the cube and penny land with one roll of the cube and one flip of the penny?

	1	2	3	4	5	6
heads, (h)	h1	h2	h3	h4	h5	h6
tails, (t)	t1	t2	t3	t4	t5	t6

12 ways

3. Archie earns $4 each week for doing his chores. How much money will Archie earn in 2 months if there are 4 weeks in each month?

	Week 1	Week 2	Week 3	Week 4
Month 1	$4	$4	$4	$4
Month 2	$4	$4	$4	$4

Time to do chores!

$32

4. **Identify Structure** Abigail has a green, yellow, and purple shirt to match with either a white, black, or red pair of pants. How many different shirt and pants outfits can she make?

	pants, (w)	pants, (b)	pants, (r)
shirt, (g)	g, w	g, b	g, r
shirt, (y)	y, w	y, b	y, r
shirt, (p)	p, w	p, b	p, r

9 outfits

How many outfits would be possible if Abigail had only 2 shirts and 2 pair of pants? Explain.

4 outfits; $2 \times 2 = 4$

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