

ciple, you multipl	y the number	of choices to fi	ind the total number o	f posibilities.
			actors and 6 leading cast this short drama	
has four types o	of pizza in 7 c	lifferent sizes.	How many different	pizzas can
			ed out 3 shirts, 4 pairs	
olors to send a s	signal to a sta	and by team ir	n case of any problem	ns. How many
ol al	ors to send a s s can be gene	ors to send a signal to a sta s can be generated if a sig	ors to send a signal to a stand by team in s can be generated if a signal requires th	o on a rescue mission in the jungle to look for her friends. Shors to send a signal to a stand by team in case of any problems can be generated if a signal requires the use of 2 fireworks



Class:

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	Counting Principle
	In counting principle, you multiply the number of choices to find the total number of posibilities.
1.	Lily Wants to make a short drama. There are 7 leading actors and 6 leading actresses to
	choose from a casts. How many different ways can Lily cast this short drama.
	Multiply 7 leading actors by 6 leading actresses
	7 x 6 = 42
	So, Lilly can cast the short drama in 42 different ways.
2.	A wasta want bas foly types of pizza in 7 different sizes Universally different pizzas and
	A restaurant has four types of pizza in 7 different sizes. How many different pizzas can someone buy?
	In counting principle, you multiply the number of choices to find the total number of posibilities.
	There are 4 types of pizzas and 7 different sizes to choose from
	So multiply So multiply
	7 x 4 = 28 So, there are 28 different pizzas someone can buy.
3.	Richard is preparing to go out with his friends. He pulled out 3 shirts, 4 pairs of pants and 4
	4 pairsof shoes to choose an outfit from. How many different outfits can he get?
	There are 3 shirts, 4 pairs of pants and 4 pairs of shoes to choose from
	Multiply: 3 x 4 x 4 = 48
	So, Richard can get 48 different outfits.
4.	Pertra had to go on a rescue mission in the jungle to look for her friends. She had 7 fireworks
	of different colors to send a signal to a stand by team in case of any problems. How many
	different signals can be generated if a signal requires the use of 2 fireworks of different
	colors at once?
	We have to choose 2 fireworks
	After selecting the first, we cannot choose the same color of firework again Number of ways of selecting the second firework = 6
	We multiply 7 by 6 since we have to choose 2 fireworks
	$7 \times 6 = 42$
	So, 42 different signals can be generated from the use of two fireworks
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