

Discovering odd and even rules

+

even + even = prediction

Explore 1 digit numbers

	+		=	
--	---	--	---	--

	+		=	
--	---	--	---	--

	+		=	
--	---	--	---	--

Explore 2 digit numbers

		+			=	
--	--	---	--	--	---	--

		+			=	
--	--	---	--	--	---	--

		+			=	
--	--	---	--	--	---	--

		+			=	
--	--	---	--	--	---	--

Explore 3 digit numbers

			+				=	
--	--	--	---	--	--	--	---	--

			+				=	
--	--	--	---	--	--	--	---	--

			+				=	
--	--	--	---	--	--	--	---	--

Can you predict the answer?

If you add *even* 4 digit numbers the answer will be

--

odd or even

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-

even - even = prediction

Explore 1 digit numbers

	-		=	
--	---	--	---	--

	-		=	
--	---	--	---	--

	-		=	
--	---	--	---	--

Explore 2 digit numbers

		-			=	
--	--	---	--	--	---	--

		-			=	
--	--	---	--	--	---	--

		-			=	
--	--	---	--	--	---	--

		-			=	
--	--	---	--	--	---	--

Explore 3 digit numbers

			-				=	
--	--	--	---	--	--	--	---	--

			-				=	
--	--	--	---	--	--	--	---	--

			-				=	
--	--	--	---	--	--	--	---	--

Can you predict the answer?

If you subtract *even* 4 digit numbers the answer will be

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X

even x even = prediction

Explore 1 digit numbers

	x		=	
--	---	--	---	--

	x		=	
--	---	--	---	--

	x		=	
--	---	--	---	--

Explore 2 digit numbers

		x			=	
--	--	---	--	--	---	--

		x			=	
--	--	---	--	--	---	--

		x			=	
--	--	---	--	--	---	--

		x			=	
--	--	---	--	--	---	--

Explore 3 digit numbers

			x				=	
--	--	--	---	--	--	--	---	--

			x				=	
--	--	--	---	--	--	--	---	--

			x				=	
--	--	--	---	--	--	--	---	--

Can you predict the answer?

If you multiply *even* 4 digit numbers the answer will be

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+

odd + odd = prediction

Explore 1 digit numbers

	+		=	
--	---	--	---	--

	+		=	
--	---	--	---	--

	+		=	
--	---	--	---	--

Explore 2 digit numbers

		+			=	
--	--	---	--	--	---	--

		+			=	
--	--	---	--	--	---	--

		+			=	
--	--	---	--	--	---	--

		+			=	
--	--	---	--	--	---	--

Explore 3 digit numbers

			+				=	
--	--	--	---	--	--	--	---	--

			+				=	
--	--	--	---	--	--	--	---	--

			+				=	
--	--	--	---	--	--	--	---	--

Can you predict the answer?

If you add *odd* 4 digit numbers the answer will be

--

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-

odd - odd = prediction

Explore 1 digit numbers

	-		=	
--	---	--	---	--

	-		=	
--	---	--	---	--

	-		=	
--	---	--	---	--

Explore 2 digit numbers

		-			=	
--	--	---	--	--	---	--

		-			=	
--	--	---	--	--	---	--

		-			=	
--	--	---	--	--	---	--

		-			=	
--	--	---	--	--	---	--

Explore 3 digit numbers

			-				=	
--	--	--	---	--	--	--	---	--

			-				=	
--	--	--	---	--	--	--	---	--

			-				=	
--	--	--	---	--	--	--	---	--

Can you predict the answer?

If you subtract *odd* 4 digit numbers the answer will be

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x

odd x odd = prediction

Explore 1 digit numbers

	x		=	
--	---	--	---	--

	x		=	
--	---	--	---	--

	x		=	
--	---	--	---	--

Explore 2 digit numbers

		x		=	
--	--	---	--	---	--

		x		=	
--	--	---	--	---	--

		x		=	
--	--	---	--	---	--

		x		=	
--	--	---	--	---	--

Explore 3 digit numbers

			x		=	
--	--	--	---	--	---	--

			x		=	
--	--	--	---	--	---	--

			x		=	
--	--	--	---	--	---	--

Can you predict the answer?

If you multiply *odd* 4 digit numbers the answer will be

Discovering odd and even rules

+ - x

odd + even =

odd - even =

odd x even =

even + odd =

even - odd =

even x odd =

Explore 1 digit numbers

	+		=	
--	---	--	---	--

	-		=	
--	---	--	---	--

	x		=	
--	---	--	---	--

Explore 2 digit numbers

		+			=	
--	--	---	--	--	---	--

		-			=	
--	--	---	--	--	---	--

		x			=	
--	--	---	--	--	---	--

Explore 3 digit numbers

			+				=	
--	--	--	---	--	--	--	---	--

			-				=	
--	--	--	---	--	--	--	---	--

			x				=	
--	--	--	---	--	--	--	---	--

Now complete this table

ADD	SUBTRACT	MULITPLY
$E + E =$	$E - E =$	$E \times E =$
$O + O =$	$O - O =$	$O \times O =$
$E + O =$	$E - O =$	$E \times O =$
$O + E =$	$O - E =$	$O \times E =$

Knowing these rules makes it easier to eliminate answers in multiple -choice questions

What will happen if you:~

add a 2 digit even number to a 3 digit even number?

subtract a 2 digit even number from a 3 digit even number?

add three even numbers?

add two even number to an odd number?

Experiment with more calculations and operations!!!