



Dividing Binomials - Box Method

Name _____

Score _____

BM:22

Divide the polynomials using box method.

1) $\frac{p^2 + 3p - 54}{p - 6} =$

p		
-6		

2) $\frac{28k^2 + k - 2}{4k - 1} =$

4k		
-1		

3) $\frac{6x^2 - 23x + 21}{2x - 3} =$

2x		
-3		

4) $\frac{y^2 - 13y + 40}{y - 5} =$

y		
-5		

5) $\frac{60h^2 + 68h + 15}{6h + 5} =$

6h		
5		

6) $\frac{5m^2 - 52m - 33}{5m + 3} =$

5m		
3		



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Answer key

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Divide the polynomials using box method.

$$1) \frac{p^2 + 3p - 54}{p - 6} = p + 9$$

	p	9
p	p^2	$9p$
-6	$-6p$	-54

$$2) \frac{28k^2 + k - 2}{4k - 1} = 7k + 2$$

	7k	2
4k	$28k^2$	$8k$
-1	$-7k$	-2

$$3) \frac{6x^2 - 23x + 21}{2x - 3} = 3x - 7$$

	3x	-7
2x	$6x^2$	$-14x$
-3	$-9x$	21

$$4) \frac{y^2 - 13y + 40}{y - 5} = y - 8$$

	y	-8
y	y^2	$-8y$
-5	$-5y$	40

$$5) \frac{60h^2 + 68h + 15}{6h + 5} = 10h + 3$$

	10h	3
6h	$60h^2$	$18h$
5	$50h$	15

$$6) \frac{5m^2 - 52m - 33}{5m + 3} = m - 11$$

	m	-11
5m	$5m^2$	$-55m$
3	$3m$	-33