Dividing Binomials - Box Method

Name _____

Score _____

BM:24

Divide the polynomials using box method.

1) $\frac{18z^2 + 39z + 20}{6z + 5} =$

6z		
5		

2) $\frac{p^2 - 10p + 9}{p - 1} =$

p		
–1		

3) $\frac{7a^2 + 11a - 6}{a + 2} =$

a		
2		

4) $\frac{8c^2 + 59c + 21}{8c + 3} =$

8c		
3		

5) $\frac{u^2 + 3u - 88}{u - 8} =$

u		
–8		

6) $\frac{20v^2 - 13v - 72}{4v - 9} =$

4v		
–9		

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Answer key

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Divide the polynomials using box method.

1) $\frac{18z^2 + 39z + 20}{6z + 5} = 3z + 4$

	3z	4
6z	$18z^2$	24z
5	15z	20

2) $\frac{p^2 - 10p + 9}{p - 1} = p - 9$

	p	–9
p	p^2	–9p
–1	–p	9

3) $\frac{7a^2 + 11a - 6}{a + 2} = 7a - 3$

	7a	–3
a	$7a^2$	–3a
2	14a	–6

4) $\frac{8c^2 + 59c + 21}{8c + 3} = c + 7$

	c	7
8c	$8c^2$	56c
3	3c	21

5) $\frac{u^2 + 3u - 88}{u - 8} = u + 11$

	u	11
u	u^2	11u
–8	–8u	–88

6) $\frac{20v^2 - 13v - 72}{4v - 9} = 5v + 8$

	5v	8
4v	$20v^2$	32v
–9	–45v	–72