

Problem 1

A		B	Question
=			
1	a	8	What is the completely factored form of $8 \cdot x^2 + 27 \cdot x - 20$ ?
2	b	27	
3	c	-20	
4	quadratic	$8 \cdot x^2 + 27 \cdot x - 20$	
5			
6			
7			
8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $8 \cdot x^2 + 27 \cdot x - 20$ ?
Answer
$8 \cdot x^2 + 27 \cdot x - 20 = (x + 4) \cdot (8 \cdot x - 5)$

Problem 2

	A	B	Question
1	a	10	What is the completely factored form of $10 \cdot x^2 + 35 \cdot x - 20$ ?
2	b	35	
3	c	-20	
4	quadratic	$10 \cdot x^2 + \dots$	
5			
6			
7			
8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $10 \cdot x^2 + 35 \cdot x - 20$ ?
Answer
$10 \cdot x^2 + 35 \cdot x - 20 = 5 \cdot (x + 4) \cdot (2 \cdot x - 1)$

Problem 3

A		B	
=			
1	a		2
2	b		5
3	c		-12
4	quadratic	$2x^2+5x-12$	
5			
6			
7			
8			
9			
10			
11			

**Question**

What is the completely factored form of  $2 \cdot x^2 + 5 \cdot x - 12$ ?

**Answer**

**Question**

What is the completely factored form of  $2 \cdot x^2 + 5 \cdot x - 12$  ?

**Answer**

$2 \cdot x^2 + 5 \cdot x - 12 = (x + 4) \cdot (2 \cdot x - 3)$

Problem 4

	A	B
	=	
1	a	3
2	b	9
3	c	-12
4	quadratic	$3 \cdot x^2 + 9 \dots$
5		
6		
7		
8		
9		
10		
11		

**Question**

What is the completely factored form of  $3 \cdot x^2 + 9 \cdot x - 12$ ?

**Answer**

**Question**

What is the completely factored form of  $3 \cdot x^2 + 9 \cdot x - 12$  ?

**Answer**

$3 \cdot x^2 + 9 \cdot x - 12 = 3 \cdot (x - 1) \cdot (x + 4)$

Problem 5

A		B	Question
=			
1	a	5	What is the completely factored form of $5 \cdot x^2 + 17 \cdot x - 12$ ?
2	b	17	
3	c	-12	
4	quadratic	$5 \cdot x^2 + 17 \cdot x - 12$	
5			
6			
7			
8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $5 \cdot x^2 + 17 \cdot x - 12$ ?
Answer
$5 \cdot x^2 + 17 \cdot x - 12 = (x + 4) \cdot (5 \cdot x - 3)$

Problem 6

A		B	Question
=			
1	a	6	<p>What is the completely factored form of</p> $6 \cdot x^2 + 21 \cdot x - 12?$
2	b	21	
3	c	-12	
4	quadratic	$6 \cdot x^2 + 21 \cdot x - 12$	
5			
6			
7			
8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
<p>What is the completely factored form of</p> $6 \cdot x^2 + 21 \cdot x - 12 ?$
Answer
$6 \cdot x^2 + 21 \cdot x - 12 = 3 \cdot (x + 4) \cdot (2 \cdot x - 1)$

Problem 7

	A	B	Question
1	a	4	What is the completely factored form of $4 \cdot x^2 + 13 \cdot x - 12$ ?
2	b	13	
3	c	-12	
4	quadratic	$4 \cdot x^2 + 13 \cdot x - 12$	
5			
6			
7			
8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $4 \cdot x^2 + 13 \cdot x - 12$ ?
Answer
$4 \cdot x^2 + 13 \cdot x - 12 = (x + 4) \cdot (4 \cdot x - 3)$

Problem 8

A		B	Question
	=		
1	a	7	What is the completely factored form of $7 \cdot x^2 + 25 \cdot x - 12$ ?
2	b	25	
3	c	-12	
4	quadratic	$7 \cdot x^2 + 25 \cdot x - 12$	
5			
6			
7			
8			
9			
10			
11			
B4		quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$	Answer

Question
What is the completely factored form of $7 \cdot x^2 + 25 \cdot x - 12$ ?
Answer
$7 \cdot x^2 + 25 \cdot x - 12 = (x + 4) \cdot (7 \cdot x - 3)$



Problem 9

	A	B
1	a	2
2	b	10
3	c	8
4	quadratic	$2 \cdot x^2 + 10 \cdot x + 8$
5		
6		
7		
8		
9		
10		
11		

**Question**

What is the completely factored form of  $2 \cdot x^2 + 10 \cdot x + 8$ ?

**Answer**

**Question**

What is the completely factored form of  $2 \cdot x^2 + 10 \cdot x + 8$  ?

**Answer**

$2 \cdot x^2 + 10 \cdot x + 8 = 2 \cdot (x+1) \cdot (x+4)$

Problem 10

	A	B	Question
	=		
1	a	3	What is the completely factored form of $3 \cdot x^2 + 14 \cdot x + 8$ ?
2	b	14	
3	c	8	
4	quadratic	$3 \cdot x^2 + 14 \cdot x + 8$	
5			
6			
7			
8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $3 \cdot x^2 + 14 \cdot x + 8$ ?
Answer
$3 \cdot x^2 + 14 \cdot x + 8 = (x + 4) \cdot (3 \cdot x + 2)$

Problem 11

	A	B
	=	
1	a	5
2	b	22
3	c	8
4	quadratic	$5x^2+22x+8$
5		
6		
7		
8		
9		
10		
11		

**Question**

What is the completely factored form of  $5 \cdot x^2 + 22 \cdot x + 8$ ?

**Answer**

**Question**

What is the completely factored form of  $5 \cdot x^2 + 22 \cdot x + 8$  ?

**Answer**

$5 \cdot x^2 + 22 \cdot x + 8 = (x + 4) \cdot (5 \cdot x + 2)$

Problem 12

	A	B
1	a	6
2	b	26
3	c	8
4	quadratic	$6x^2+26x+8$
5		
6		
7		
8		
9		
10		
11		

**Question**

What is the completely factored form of  $6x^2+26x+8$ ?

**Answer**

**Question**

What is the completely factored form of  $6x^2+26x+8$  ?

**Answer**

$6x^2+26x+8 = 2 \cdot (x+4) \cdot (3x+1)$

Problem 13

	A	B
1	a	4
2	b	18
3	c	8
4	quadratic	$4x^2+18x+8$
5		
6		
7		
8		
9		
10		
11		

**Question**

What is the completely factored form of  $4x^2+18x+8$ ?

**Answer**

**Question**

What is the completely factored form of  $4x^2+18x+8$  ?

**Answer**

$4x^2+18x+8 = 2 \cdot (x+4) \cdot (2x+1)$

Problem 14

	A	B
1	a	7
2	b	30
3	c	8
4	quadratic	$7 \cdot x^2 + 30 \cdot x + 8$
5		
6		
7		
8		
9		
10		
11		

**Question**

What is the completely factored form of  $7 \cdot x^2 + 30 \cdot x + 8$ ?

**Answer**

**Question**

What is the completely factored form of  $7 \cdot x^2 + 30 \cdot x + 8$  ?

**Answer**

$7 \cdot x^2 + 30 \cdot x + 8 = (x + 4) \cdot (7 \cdot x + 2)$

Problem 15

	A	B
1	a	2
2	b	1
3	c	-28
4	quadratic	$2x^2+x..$
5		
6		
7		
8		
9		
10		
11		

**Question**

What is the completely factored form of  $2 \cdot x^2 + x - 28$  ?

**Answer**

$quadratic := b1 \cdot x^2 + b2 \cdot x + b3$

**Question**

What is the completely factored form of  $2 \cdot x^2 + x - 28$  ?

**Answer**

$2 \cdot x^2 + x - 28 = (x + 4) \cdot (2 \cdot x - 7)$

Problem 16

	A	B	Question
1	a	3	What is the completely factored form of $3 \cdot x^2 + 5 \cdot x - 28$ ?
2	b	5	
3	c	-28	
4	quadratic	$3 \cdot x^2 + 5 \cdot x - 28$	
5			
6			
7			
8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $3 \cdot x^2 + 5 \cdot x - 28$ ?
Answer
$3 \cdot x^2 + 5 \cdot x - 28 = (x + 4) \cdot (3 \cdot x - 7)$



Problem 17

	A	B	Question
1	a	5	<p>What is the completely factored form of <math>5 \cdot x^2 + 13 \cdot x - 28</math>?</p>
2	b	13	
3	c	-28	
4	quadratic	$5 \cdot x^2 + 13 \cdot x - 28$	
5			
6			
7			
8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
<p>What is the completely factored form of <math>5 \cdot x^2 + 13 \cdot x - 28</math> ?</p>
Answer
$5 \cdot x^2 + 13 \cdot x - 28 = (x + 4) \cdot (5 \cdot x - 7)$

Problem 18

	A	B	Question
1	a	6	What is the completely factored form of $6 \cdot x^2 + 17 \cdot x - 28$ ?
2	b	17	
3	c	-28	
4	quadratic	$6 \cdot x^2 + 17 \cdot x - 28$	
5			
6			
7			
8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $6 \cdot x^2 + 17 \cdot x - 28$ ?
Answer
$6 \cdot x^2 + 17 \cdot x - 28 = (x + 4) \cdot (6 \cdot x - 7)$

Problem 19

	A	B
	=	
1	a	4
2	b	9
3	c	-28
4	quadratic	$4x^2+9x-28$
5		
6		
7		
8		
9		
10		
11		

**Question**

What is the completely factored form of  $4x^2+9x-28$ ?

**Answer**

**Question**

What is the completely factored form of  $4x^2+9x-28$  ?

**Answer**

$4x^2+9x-28 = (x+4) \cdot (4x-7)$

Problem 20

	A	B	Question
1	a	7	What is the completely factored form of $7 \cdot x^2 + 21 \cdot x - 28$ ?
2	b	21	
3	c	-28	
4	quadratic	$7 \cdot x^2 + 21 \cdot x - 28$	
5			
6			
7			
8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $7 \cdot x^2 + 21 \cdot x - 28$ ?
Answer
$7 \cdot x^2 + 21 \cdot x - 28 = 7 \cdot (x - 1) \cdot (x + 4)$