



Match each expression on the left to the equivalent expression on the right.

Answers

1) $16NXP$

A. $4NX \times 4P$

1. _____

2) $3 \times 5 \times 2 \times N \times X$

B. $(2N)(2X)$

2. _____

3) $9NXP$

C. $(4N)(2)$

3. _____

4) $3N \times 2X$

D. $20NXP$

4. _____

5) $4NX$

E. $6NX$

5. _____

6) $20NX$

F. $(4NX)(2)$

6. _____

7) $8NX$

G. $5 \times 3 \times 5 \times 3 \times N$

7. _____

8) $20N$

H. $30NX$

8. _____

9) $8N$

I. $40N$

9. _____

10) $2 \times 4 \times 5 \times N$

J. $3 \times 3 \times N \times X \times P$

10. _____

11) $(3N)(4X)(3P)$

K. $5 \times 4 \times N$

11. _____

12) $(4NX)(5P)$

L. $5 \times 4 \times N \times X$

12. _____

13) $225N$

M. $36NXP$

13. _____



Match each expression on the left to the equivalent expression on the right.

Answers

1) $16NXP$	A. $4NX \times 4P$	1. <u>A</u>
2) $3 \times 5 \times 2 \times N \times X$	B. $(2N)(2X)$	2. <u>H</u>
3) $9NXP$	C. $(4N)(2)$	3. <u>J</u>
4) $3N \times 2X$	D. $20NXP$	4. <u>E</u>
5) $4NX$	E. $6NX$	5. <u>B</u>
6) $20NX$	F. $(4NX)(2)$	6. <u>L</u>
7) $8NX$	G. $5 \times 3 \times 5 \times 3 \times N$	7. <u>F</u>
8) $20N$	H. $30NX$	8. <u>K</u>
9) $8N$	I. $40N$	9. <u>C</u>
10) $2 \times 4 \times 5 \times N$	J. $3 \times 3 \times N \times X \times P$	10. <u>I</u>
11) $(3N)(4X)(3P)$	K. $5 \times 4 \times N$	11. <u>M</u>
12) $(4NX)(5P)$	L. $5 \times 4 \times N \times X$	12. <u>D</u>
13) $225N$	M. $36NXP$	13. <u>G</u>



Match each expression on the left to the equivalent expression on the right.

Answers

1) $12QXI$

A. $5Q \times 4X$

1. _____

2) $3 \times 4 \times 4 \times 2 \times Q$

B. $96Q$

2. _____

3) $4Q$

C. $80Q$

3. _____

4. _____

4) $4 \times 4 \times 5 \times Q$

D. $(2QX)(5)$

5. _____

6. _____

5) $15Q$

E. $(4QX)(4I)$

7. _____

6) $12QX$

F. $3 \times 3 \times Q \times X \times I$

8. _____

9. _____

7) $10QX$

G. $9QX$

10. _____

8) $16QXI$

H. $(3Q)(5)$

11. _____

12. _____

9) $(3Q)(3X)$

I. $(2Q)(2X)(3I)$

13. _____

10) $5 \times 3 \times Q \times X$

J. $15QX$

11) $9QXI$

K. $3QX \times 5I$

12) $15QXI$

L. $2 \times 2 \times Q$

13) $20QX$

M. $2 \times 2 \times 3 \times Q \times X$



Match each expression on the left to the equivalent expression on the right.

- | | |
|--------------------------------------------|--------------------------------------------|
| 1) $12QXI$ | A. $5Q \times 4X$ |
| 2) $3 \times 4 \times 4 \times 2 \times Q$ | B. $96Q$ |
| 3) $4Q$ | C. $80Q$ |
| 4) $4 \times 4 \times 5 \times Q$ | D. $(2QX)(5)$ |
| 5) $15Q$ | E. $(4QX)(4I)$ |
| 6) $12QX$ | F. $3 \times 3 \times Q \times X \times I$ |
| 7) $10QX$ | G. $9QX$ |
| 8) $16QXI$ | H. $(3Q)(5)$ |
| 9) $(3Q)(3X)$ | I. $(2Q)(2X)(3I)$ |
| 10) $5 \times 3 \times Q \times X$ | J. $15QX$ |
| 11) $9QXI$ | K. $3QX \times 5I$ |
| 12) $15QXI$ | L. $2 \times 2 \times Q$ |
| 13) $20QX$ | M. $2 \times 2 \times 3 \times Q \times X$ |

Answers

1. I
2. B
3. L
4. C
5. H
6. M
7. D
8. E
9. G
10. J
11. F
12. K
13. A



Match each expression on the left to the equivalent expression on the right.

Answers

1) $(5FE)(5X)$

A. $4 \times 5 \times F \times E$

1. _____

2) $(2FE)(3)$

B. $5 \times 3 \times F \times E \times X$

2. _____

3) $5 \times 5 \times F$

C. $3F \times 2E$

3. _____

4) $6FE$

D. $25FEX$

4. _____

5) $12F$

E. $(4F)(4E)$

5. _____

6) $5FE \times 5X$

F. $25F$

6. _____

7) $16FE$

G. $5 \times 3 \times 4 \times F$

7. _____

8) $45FE$

H. $6FE$

8. _____

9) $20FE$

I. $5 \times 3 \times 3 \times F \times E$

9. _____

10) $15FEX$

J. $240F$

10. _____

11) $45FEX$

K. $(5F)(3E)(3X)$

11. _____

12) $3 \times 4 \times 5 \times 4 \times F$

L. $(4F)(3)$

12. _____

13) $60F$

M. $25FEX$

13. _____



Match each expression on the left to the equivalent expression on the right.

1) $(5FE)(5X)$

A. $4 \times 5 \times F \times E$

2) $(2FE)(3)$

B. $5 \times 3 \times F \times E \times X$

3) $5 \times 5 \times F$

C. $3F \times 2E$

4) $6FE$

D. $25FEX$

5) $12F$

E. $(4F)(4E)$

6) $5FE \times 5X$

F. $25F$

7) $16FE$

G. $5 \times 3 \times 4 \times F$

8) $45FE$

H. $6FE$

9) $20FE$

I. $5 \times 3 \times 3 \times F \times E$

10) $15FEX$

J. $240F$

11) $45FEX$

K. $(5F)(3E)(3X)$

12) $3 \times 4 \times 5 \times 4 \times F$

L. $(4F)(3)$

13) $60F$

M. $25FEX$

Answers

1. **M**

2. **H**

3. **F**

4. **C**

5. **L**

6. **D**

7. **E**

8. **I**

9. **A**

10. **B**

11. **K**

12. **J**

13. **G**



Match each expression on the left to the equivalent expression on the right.

Answers

1) $5MH \times 5S$

A. $4M \times 5H$

1. _____

2) $20MH$

B. $12MH$

2. _____

3) $(5M)(4)$

C. $20MHS$

3. _____

4) $(3M)(4H)$

D. $25MH$

4. _____

5) $5 \times 4 \times M \times H \times S$

E. $15MHS$

5. _____

6) $10M$

F. $300M$

6. _____

7) $(3MH)(5S)$

G. $5 \times 5 \times 4 \times M$

7. _____

8) $5 \times 5 \times M \times H$

H. $2 \times 5 \times M$

8. _____

9) $75MH$

I. $25MHS$

9. _____

10) $48MHS$

J. $(4M)(3H)(4S)$

10. _____

11) $(5MH)(5)$

K. $25MH$

11. _____

12) $4 \times 5 \times 3 \times 5 \times M$

L. $3 \times 5 \times 5 \times M \times H$

12. _____

13) $100M$

M. $20M$

13. _____



Match each expression on the left to the equivalent expression on the right.

Answers

1) $5MH \times 5S$	A. $4M \times 5H$	1. <u>I</u>
2) $20MH$	B. $12MH$	2. <u>A</u>
3) $(5M)(4)$	C. $20MHS$	3. <u>M</u>
4) $(3M)(4H)$	D. $25MH$	4. <u>B</u>
5) $5 \times 4 \times M \times H \times S$	E. $15MHS$	5. <u>C</u>
6) $10M$	F. $300M$	6. <u>H</u>
7) $(3MH)(5S)$	G. $5 \times 5 \times 4 \times M$	7. <u>E</u>
8) $5 \times 5 \times M \times H$	H. $2 \times 5 \times M$	8. <u>D</u>
9) $75MH$	I. $25MHS$	9. <u>L</u>
10) $48MHS$	J. $(4M)(3H)(4S)$	10. <u>J</u>
11) $(5MH)(5)$	K. $25MH$	11. <u>K</u>
12) $4 \times 5 \times 3 \times 5 \times M$	L. $3 \times 5 \times 5 \times M \times H$	12. <u>F</u>
13) $100M$	M. $20M$	13. <u>G</u>



Match each expression on the left to the equivalent expression on the right.

Answers

1) $36L$

A. $3 \times 3 \times 4 \times L$

1. _____

2) $10LIO$

B. $30LI$

2. _____

3) $12LIO$

C. $12LI$

3. _____

4) $(3L)(4I)$

D. $5 \times 3 \times L$

4. _____

5) $(4L)(5I)(2O)$

E. $(4LI)(3O)$

5. _____

6) $120L$

F. $(2L)(5)$

6. _____

7) $12LI$

G. $(5LI)(5)$

7. _____

8) $25LI$

H. $2 \times 4 \times 3 \times 5 \times L$

8. _____

9) $15LIO$

I. $25LI$

9. _____

10) $15L$

J. $40LIO$

10. _____

11) $10L$

K. $5 \times 3 \times L \times I \times O$

11. _____

12) $2 \times 3 \times 5 \times L \times I$

L. $5LI \times 2O$

12. _____

13) $5L \times 5I$

M. $4 \times 3 \times L \times I$

13. _____



Match each expression on the left to the equivalent expression on the right.

Answers

1) 36L	A. $3 \times 3 \times 4 \times L$	1. <u> A </u>
2) 10LIO	B. 30LI	2. <u> L </u>
3) 12LIO	C. 12LI	3. <u> E </u>
4) (3L)(4I)	D. $5 \times 3 \times L$	4. <u> C </u>
5) (4L)(5I)(2O)	E. (4LI)(3O)	5. <u> J </u>
6) 120L	F. (2L)(5)	6. <u> H </u>
7) 12LI	G. (5LI)(5)	7. <u> M </u>
8) 25LI	H. $2 \times 4 \times 3 \times 5 \times L$	8. <u> G </u>
9) 15LIO	I. 25LI	9. <u> K </u>
10) 15L	J. 40LIO	10. <u> D </u>
11) 10L	K. $5 \times 3 \times L \times I \times O$	11. <u> F </u>
12) $2 \times 3 \times 5 \times L \times I$	L. $5LI \times 2O$	12. <u> B </u>
13) $5L \times 5I$	M. $4 \times 3 \times L \times I$	13. <u> I </u>



Match each expression on the left to the equivalent expression on the right.

Answers

1) $3 \times 4 \times 4 \times 5 \times V$

A. $10V$

1. _____

2) $(5V)(2)$

B. $240V$

2. _____

3) $60VLP$

C. $(3V)(5L)(4P)$

3. _____

4) $4VL$

D. $18VL$

4. _____

5) $3 \times 2 \times 3 \times V \times L$

E. $2 \times 3 \times V \times L \times P$

5. _____

6) $20VLP$

F. $5 \times 2 \times V \times L$

6. _____

7) $5 \times 4 \times 5 \times V$

G. $100V$

7. _____

8) $6VLP$

H. $12VL$

8. _____

9) $5VL \times 3P$

I. $15VLP$

9. _____

10) $(3V)(4L)$

J. $12VL$

10. _____

11) $10VL$

K. $10V$

11. _____

12) $4V \times 3L$

L. $(5VL)(4P)$

12. _____

13) $2 \times 5 \times V$

M. $(2VL)(2)$

13. _____



Match each expression on the left to the equivalent expression on the right.

1) $3 \times 4 \times 4 \times 5 \times V$

A. 10V

2) $(5V)(2)$

B. 240V

3) 60VLP

C. $(3V)(5L)(4P)$

4) 4VL

D. 18VL

5) $3 \times 2 \times 3 \times V \times L$

E. $2 \times 3 \times V \times L \times P$

6) 20VLP

F. $5 \times 2 \times V \times L$

7) $5 \times 4 \times 5 \times V$

G. 100V

8) 6VLP

H. 12VL

9) $5VL \times 3P$

I. 15VLP

10) $(3V)(4L)$

J. 12VL

11) 10VL

K. 10V

12) $4V \times 3L$

L. $(5VL)(4P)$

13) $2 \times 5 \times V$

M. $(2VL)(2)$

Answers

1. **B**

2. **K**

3. **C**

4. **M**

5. **D**

6. **L**

7. **G**

8. **E**

9. **I**

10. **J**

11. **F**

12. **H**

13. **A**



Match each expression on the left to the equivalent expression on the right.

Answers

1) $4LK$

A. $3 \times 4 \times 4 \times L \times K$

1. _____

2) $4L \times 4K$

B. $4 \times 2 \times 4 \times 3 \times L$

2. _____

3) $15LKC$

C. $5LK \times 5C$

3. _____

4) $(3L)(2K)(2C)$

D. $20LK$

4. _____

5) $(5LK)(4)$

E. $2 \times 2 \times L \times K$

5. _____

6) $4LK$

F. $16LK$

6. _____

7) $25LKC$

G. $12LKC$

7. _____

8) $48LK$

H. $4 \times 2 \times 3 \times L$

8. _____

9) $(2LK)(3C)$

I. $(2L)(2K)$

9. _____

10) $24L$

J. $(5L)(4)$

10. _____

11) $20L$

K. $4 \times 3 \times L$

11. _____

12) $12L$

L. $5 \times 3 \times L \times K \times C$

12. _____

13) $96L$

M. $6LKC$

13. _____



Match each expression on the left to the equivalent expression on the right.

Answers

1) $4LK$	A. $3 \times 4 \times 4 \times L \times K$	1. <u>I</u>
2) $4L \times 4K$	B. $4 \times 2 \times 4 \times 3 \times L$	2. <u>F</u>
3) $15LKC$	C. $5LK \times 5C$	3. <u>L</u>
4) $(3L)(2K)(2C)$	D. $20LK$	4. <u>G</u>
5) $(5LK)(4)$	E. $2 \times 2 \times L \times K$	5. <u>D</u>
6) $4LK$	F. $16LK$	6. <u>E</u>
7) $25LKC$	G. $12LKC$	7. <u>C</u>
8) $48LK$	H. $4 \times 2 \times 3 \times L$	8. <u>A</u>
9) $(2LK)(3C)$	I. $(2L)(2K)$	9. <u>M</u>
10) $24L$	J. $(5L)(4)$	10. <u>H</u>
11) $20L$	K. $4 \times 3 \times L$	11. <u>J</u>
12) $12L$	L. $5 \times 3 \times L \times K \times C$	12. <u>K</u>
13) $96L$	M. $6LKC$	13. <u>B</u>



Match each expression on the left to the equivalent expression on the right.

Answers

1) $12UE$

A. $8U$

1. _____

2) $2 \times 3 \times 2 \times 5 \times U$

B. $8UE$

2. _____

3) $15UEA$

C. $20U$

3. _____

4) $8UEA$

D. $16UE$

4. _____

5) $40U$

E. $(5UE)(3A)$

5. _____

6) $4 \times 4 \times U \times E$

F. $24UE$

6. _____

7) $3 \times 4 \times 2 \times U \times E$

G. $16UEA$

7. _____

8) $(2U)(4E)(2A)$

H. $60U$

8. _____

9) $25UE$

I. $(3UE)(4)$

9. _____

10) $6UEA$

J. $5 \times 4 \times 2 \times U$

10. _____

11) $5 \times 4 \times U$

K. $2UE \times 3A$

11. _____

12) $2U \times 4E$

L. $4 \times 2 \times U \times E \times A$

12. _____

13) $(2U)(4)$

M. $(5U)(5E)$

13. _____



Match each expression on the left to the equivalent expression on the right.

Answers

1) $12UE$

A. $8U$

1. I

2) $2 \times 3 \times 2 \times 5 \times U$

B. $8UE$

2. H

3) $15UEA$

C. $20U$

3. E

4) $8UEA$

D. $16UE$

4. L

5) $40U$

E. $(5UE)(3A)$

5. J

6) $4 \times 4 \times U \times E$

F. $24UE$

6. D

7) $3 \times 4 \times 2 \times U \times E$

G. $16UEA$

7. F

8) $(2U)(4E)(2A)$

H. $60U$

8. G

9) $25UE$

I. $(3UE)(4)$

9. M

10) $6UEA$

J. $5 \times 4 \times 2 \times U$

10. K

11) $5 \times 4 \times U$

K. $2UE \times 3A$

11. C

12) $2U \times 4E$

L. $4 \times 2 \times U \times E \times A$

12. B

13) $(2U)(4)$

M. $(5U)(5E)$

13. A



Match each expression on the left to the equivalent expression on the right.

Answers

1) $(5IR)(2)$

A. $(5I)(2R)$

1. _____

2) $8I$

B. $(4IR)(5V)$

2. _____

3) $20IRV$

C. $(4I)(2)$

3. _____

4) $25IR$

D. $2 \times 4 \times 3 \times 2 \times I$

4. _____

5) $15IR$

E. $2 \times 3 \times 2 \times I$

5. _____

6) $8IRV$

F. $4 \times 2 \times I \times R \times V$

6. _____

7) $10I$

G. $5I \times 3R$

7. _____

8) $10IR$

H. $2 \times 5 \times I$

8. _____

9) $48I$

I. $10IR$

9. _____

10) $5 \times 2 \times 2 \times I \times R$

J. $(3I)(3R)(5V)$

10. _____

11) $45IRV$

K. $5 \times 5 \times I \times R$

11. _____

12) $12I$

L. $20IR$

12. _____

13) $20IRV$

M. $5IR \times 4V$

13. _____



Match each expression on the left to the equivalent expression on the right.

Answers

1) $(5IR)(2)$	A. $(5I)(2R)$	1. <u>I</u>
2) $8I$	B. $(4IR)(5V)$	2. <u>C</u>
3) $20IRV$	C. $(4I)(2)$	3. <u>M</u>
4) $25IR$	D. $2 \times 4 \times 3 \times 2 \times I$	4. <u>K</u>
5) $15IR$	E. $2 \times 3 \times 2 \times I$	5. <u>G</u>
6) $8IRV$	F. $4 \times 2 \times I \times R \times V$	6. <u>F</u>
7) $10I$	G. $5I \times 3R$	7. <u>H</u>
8) $10IR$	H. $2 \times 5 \times I$	8. <u>A</u>
9) $48I$	I. $10IR$	9. <u>D</u>
10) $5 \times 2 \times 2 \times I \times R$	J. $(3I)(3R)(5V)$	10. <u>L</u>
11) $45IRV$	K. $5 \times 5 \times I \times R$	11. <u>J</u>
12) $12I$	L. $20IR$	12. <u>E</u>
13) $20IRV$	M. $5IR \times 4V$	13. <u>B</u>



Match each expression on the left to the equivalent expression on the right.

Answers

1) $18L$

A. $32LN$

1. _____

2) $(5LN)(5)$

B. $(5L)(5)$

2. _____

3) $10LN$

C. $108L$

3. _____

4) $3 \times 4 \times L \times N$

D. $12LNH$

4. _____

5) $3 \times 2 \times L \times N \times H$

E. $12LN$

5. _____

6) $4 \times 2 \times 4 \times L \times N$

F. $6LNH$

6. _____

7) $16LNH$

G. $(2L)(4N)(5H)$

7. _____

8) $40LNH$

H. $3 \times 2 \times 3 \times L$

8. _____

9) $25L$

I. $5 \times 5 \times L$

9. _____

10) $3LN \times 4H$

J. $2L \times 5N$

10. _____

11) $3 \times 3 \times 4 \times 3 \times L$

K. $15LN$

11. _____

12) $25L$

L. $25LN$

12. _____

13) $(5L)(3N)$

M. $(4LN)(4H)$

13. _____



Match each expression on the left to the equivalent expression on the right.

- | | |
|---------------------------------------------|-----------------------------------|
| 1) 18L | A. 32LN |
| 2) (5LN)(5) | B. (5L)(5) |
| 3) 10LN | C. 108L |
| 4) $3 \times 4 \times L \times N$ | D. 12LNH |
| 5) $3 \times 2 \times L \times N \times H$ | E. 12LN |
| 6) $4 \times 2 \times 4 \times L \times N$ | F. 6LNH |
| 7) 16LNH | G. (2L)(4N)(5H) |
| 8) 40LNH | H. $3 \times 2 \times 3 \times L$ |
| 9) 25L | I. $5 \times 5 \times L$ |
| 10) $3LN \times 4H$ | J. $2L \times 5N$ |
| 11) $3 \times 3 \times 4 \times 3 \times L$ | K. 15LN |
| 12) 25L | L. 25LN |
| 13) (5L)(3N) | M. (4LN)(4H) |

Answers

1. **H**
2. **L**
3. **J**
4. **E**
5. **F**
6. **A**
7. **M**
8. **G**
9. **I**
10. **D**
11. **C**
12. **B**
13. **K**