

I'm not robot!

137690262.57143 56279286396 312841916 92434431424 10478273.676471 33341575.857143 55364926008 12056782590 31834314642 22649033.159091 9580340725 8026546234 3230406.1724138 312021257 17316457620 71245578630 8677753.9350649 68146636275 20109878.64 349270331 32924374.076923

Lesson 10.6 Practice B
 Match the binomial with a correct factorization.
 1. $2x^2 + 3x - 12$ A. $(2x + 4)(x - 3)$
 2. $2x^2 + 3x + 12$ B. $(2x - 4)(x + 3)$
 3. $2x^2 - 3x + 12$ C. $(2x + 4)(x + 3)$
 4. $2x^2 - 3x - 12$ D. $(2x - 4)(x - 3)$
 5. $2x^2 + 3x + 12$ E. $(2x + 4)(x - 3)$
 6. $2x^2 + 3x - 12$ F. $(2x - 4)(x + 3)$

Choose the correct factorization. If neither is correct, find the correct factorization.
 7. $2x^2 + 3x - 12$ A. $(2x + 4)(x - 3)$ B. $(2x - 4)(x + 3)$
 8. $(2x + 4)(x - 3)$ C. $(2x - 4)(x + 3)$ D. $(2x + 4)(x + 3)$
 9. $(2x - 4)(x - 3)$ E. $(2x - 4)(x - 3)$ F. $(2x + 4)(x + 3)$

Factor the binomial if possible. If it cannot be factored, write not factorable.
 10. $2x^2 + 3x + 12$ 11. $2x^2 + 3x - 12$ 12. $2x^2 + 3x + 12$
 13. $2x^2 + 3x + 12$ 14. $2x^2 + 3x - 12$ 15. $2x^2 + 3x - 12$
 16. $2x^2 + 3x - 12$ 17. $2x^2 + 3x - 12$ 18. $2x^2 + 3x - 12$

Solve the equation by factoring.
 19. $2x^2 + 3x + 12 = 0$ 20. $2x^2 + 3x - 12 = 0$ 21. $2x^2 + 3x + 12 = 0$
 22. $2x^2 + 3x + 12 = 0$ 23. $2x^2 + 3x - 12 = 0$ 24. $2x^2 + 3x - 12 = 0$
 25. $2x^2 + 3x - 12 = 0$ 26. $2x^2 + 3x + 12 = 0$ 27. $2x^2 + 3x + 12 = 0$

Answer Key: The best possible answer is indicated by the letter A. Other answers can be marked by B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z.

Answers (Lesson 1-1)

Chapter 1 Skills Practice Variables and Expressions

Write an algebraic expression for each verbal expression.
 1. the sum of a number and 19 $x + 19$
 2. the product of 12 and y $12y$
 3. a number increased by three times a number $x + 3x$
 4. the product of 12 and the second power of y $12y^2$

Evaluate each expression.
 6. $17^2 = 289$
 7. $12^2 = 144$
 8. $10^2 = 100$
 9. $11^2 = 121$
 10. $13^2 = 169$
 11. $14^2 = 196$
 12. $15^2 = 225$
 13. $16^2 = 256$
 14. $17^2 = 289$

Write a verbal expression for each algebraic expression. 18-25. Sample answers are given.
 18. xy the product of x and y
 19. $x + 3y$ the sum of x and three times y
 20. x^2 x squared
 21. $x^2 + y^2$ the sum of the squares of x and y
 22. $2x + 3y$ 2 times x plus 3 times y
 23. xy^2 x times the square of y
 24. $x^2 + y^2$ the sum of the squares of x and y
 25. $2x^2 + 3y$ 2 times x squared plus 3 times y

Chapter 1 Practice Variables and Expressions

Write an algebraic expression for each verbal expression.
 1. the difference of 12 and a $12 - a$
 2. the sum of 12 and a number $12 + a$
 3. the product of 12 and y $12y$
 4. 12 decreased by twice a number $12 - 2a$
 5. a number divided by the square of 2 $\frac{a}{2^2}$
 6. two times the cube of a number $2a^3$

Evaluate each expression.
 6. $12^2 = 144$
 7. $13^2 = 169$
 8. $14^2 = 196$
 9. $15^2 = 225$
 10. $16^2 = 256$
 11. $17^2 = 289$
 12. $18^2 = 324$
 13. $19^2 = 361$
 14. $20^2 = 400$

Write a verbal expression for each algebraic expression. 18-25. Sample answers are given.
 18. xy the product of x and y
 19. $x + 3y$ the sum of x and three times y
 20. x^2 x squared
 21. $x^2 + y^2$ the sum of the squares of x and y
 22. $2x + 3y$ 2 times x plus 3 times y
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WORKBOOK 2 Answer key

Starter unit

Vocabulary (page 4)

- 1 niece
2 aunt
3 mother
4 wife
5 sister
6 granddaughter
- 1 daughter
2 husband
3 uncle
4 nephew
5 wife
6 sister
- 1 a 3 c 5 c
2 c 4 a 6 d
- 1 grandparents
2 parents
3 children
4 uncle
5 aunt
6 nephew
7 niece
8 cousins
9 granddaughter
10 grandson
- Students' own answers.

Language focus (page 5)

- 1 's 4 isn't
2 're 5 a ren't
3 not
- 1 We 4 it
2 They 5 He
3 I 6 you
- 1 is 5 is
2 aren't 6 is
3 isn't 7 aren't
4 are 8 isn't
- Students' own answers.
- 1 Peter's
2 parents'
3 teacher's
4 brothers'
5 Sara's
6 grandparents'
- 1 Daniel and Laura are Oliver's cousins.
2 Oliver is Emma's nephew.
3 Mark and Emma are Joseph's children.
4 Laura is David and Emma's daughter.
5 Clare is Daniel's aunt.

Vocabulary (page 6)

- 1 science
2 geography
3 PE
4 music
5 English
6 class
- 1 notes
2 exam
3 book
4 teacher
5 homework
6 room
- 1 geography
2 maths
3 exam
4 book
5 class
- Students' own answers.

Language focus (page 7)

- 1 Have 3 hasn't
2 haven't 4 has
- 1 haven't got
2 has got
3 haven't got
4 Has the teacher got
5 have you got
6 has she got
- 1 Has your brother got a maths exam on Friday? e has
2 Have we got two exercises for homework? c haven't
3 Has the school got a new science laboratory? d hasn't
4 Have they got an interesting geography book? b have
- 1 there aren't 5 There are
2 There are 6 there isn't
3 there are 7 there is
4 there is 8 there aren't
- Students' own answers.

Unit 1

Vocabulary (page 8)

- 1 keys 4 a key ring
2 make-up 5 jewellery
3 a purse
2 watch
2 money
3 bus pass
4 MP3 player
5 mobile phone
6 make-up
7 keys
8 ID card

Language focus (page 11)

- 1 play 5 don't
2 Does 6 does
3 surf 7 doesn't
4 do

Vocabulary (page 9)

- 1 bag 4 ticket
2 sunglasses 5 keys
3 wallet
- Students' own answers.

Language focus (page 9)

- 1 likes 3 doesn't
2 don't 4 like
- 1 He doesn't buy a lot of designer clothes.
2 They don't work in town.
3 Frank doesn't study a lot.
4 We don't like hip hop music.
5 She doesn't carry an ID card.
6 My dog doesn't need a drink of water.
- 1 He doesn't carry any money.
2 She watches too much TV.
3 He goes swimming twice a week.
4 We don't like horror films.
5 She doesn't wear make-up.
6 He uses an MP3 player to listen to music.
- 1 He goes
2 He doesn't play
3 She watches
4 He studies
5 She doesn't go

Vocabulary (page 10)

- 1 watch 5 meet
2 play 6 surf
3 listen to 7 collect
4 take 8 go
- 1 plays 4 take
2 collect 5 reads
3 goes 6 surf
- 1 goes 5 listen to
2 doesn't go 6 don't watch
3 reads 7 surf
4 play
- Students' own answers.

Language focus (page 11)

- 1 play 5 don't
2 Does 6 does
3 surf 7 doesn't
4 do



