

Section 1.1

Introduction to Whole Numbers

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1. **7 pts**

Find the prime factorization of the following number. 693

2. **7 pts**

Find the prime factorization of the following number. 2520

3. **5 pts**

Round each number to the nearest hundred. (a) 49,584 (b) 49,548

Section 1.2

Use the Language of Algebra

15 points on this page

1. 7 pts

Simplify the following expression using the order of operations. $3^2 + 7^2$

2. 3 pts

Determine whether the following is an expression or an equation. $x + 9$

3. 5 pts

Translate the following phrase into an algebraic expression. the sum of $8x$ and $3x$

Section 1.3

Add and Subtract Integers

17 points on this page

1. **7 pts**

Simplify each expression. $-3 - 8 + 4$

2. **5 pts**

Evaluate. $-c$ when (a) $c = 12$ (b) $c = -12$

3. **5 pts**

Simplify. $-(-11)$

Section 1.4

Multiply and Divide Integers

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1. **5 pts**
Multiply. $9(-7)$

2. **7 pts**
Simplify the following expression. $65 \div (-5) + (-28) \div (-7)$

3. **7 pts**
Simplify the following expression. $(6 - 11)(8 - 13)$

SYLLABUS

Course policies

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1. **3 pts**

Who grades your warm-up?

- (a) You do, once the answer key opens — and the self-grades are audited (b) The TA grades every one
(c) Canvas grades it automatically (d) Your team captain

2. **3 pts**

You miss a scrimmage. What are you required to do?

- (a) Complete the entire scrimmage in student hours or tutoring (b) Nothing, it is a team grade
(c) Take a Game instead (d) Write a make-up paper

3. **3 pts**

How many homework scores are dropped at the end of the semester?

- (a) The two lowest (b) None (c) The lowest one (d) The three lowest

Section 1.1

Introduction to Whole Numbers

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1. **3 pts**

Find the place value of each indicated digit in the given number. 2,850,361,159,433 (a) 9 (b) 8 (c) 6 (d) 4 (e) 2

2. **3 pts**

Find the place value of each indicated digit in the given number. 36,084,215 (a) 8 (b) 6 (c) 5 (d) 4 (e) 3

3. **5 pts**

Write the given number as a whole number using digits. three billion, two hundred twenty-six million, five hundred twelve thousand, seventeen

Section 1.2

Use the Language of Algebra

17 points on this page

1. **7 pts**

Simplify the following expression by combining like terms. $3x^2 + 12x + 11 + 14x^2 + 8x + 5$

2. **7 pts**

For parts (a) and (b), simplify each expression using the order of operations. (a) $2 + 6 \cdot 3$ (b) $(2 + 6) \cdot 3$

3. **3 pts**

Identify the terms in the expression. $15x^2 + 6x + 2$

Section 1.3

Add and Subtract Integers

15 points on this page

1. **5 pts**
Simplify.
 $-(-4)$

2. **5 pts**
Compute the value of $8| - 7|$.

3. **5 pts**
Compute the value of $-|p|$ when $p = 19$.

Section 1.4

Multiply and Divide Integers

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1. **7 pts**

Translate to an algebraic expression and simplify if possible. The sum of 3 and -15, increased by 7

2. **5 pts**

Compute the quotient for each division and show your work. $-180 \div 15$

3. **5 pts**

Multiply. $-1 \cdot 3$

SYLLABUS

Course policies

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1. **3 pts**
A member of your group is present but does not participate. What happens to the group's small-group grade?

- (a) It takes a flat 25% penalty for that member (b) Nothing, the grade is per person (c) The group loses 5 points (d) That member alone receives a zero

2. **3 pts**
Which devices are required for this course?

- (a) An iPad and an Apple Pencil (b) A laptop and a graphing calculator (c) A smartphone with the Canvas app (d) No devices are required

3. **3 pts**
What happens on Fridays instead of small-group work?

- (a) A team scrimmage (b) A Game (c) A longer drill session (d) Nothing — class ends early