

Activity Workbook for MTH 20

Fundamentals of Mathematics

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1 Introduction

Introduction

This section is just a wrapper for the actual worksheet.

Worksheet: Introduction

Preparation. Answer the following questions about the syllabus.

1. Write down the room number and meeting time for our class:
2. Write down the instructor's email address:
3. What are three ways you can obtain help in this class?

Preparation. Answer the following questions about the syllabus.

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2 Integers

Whole Numbers

In this section...

Worksheet: Arithmetic Practice

Objectives

- Practice arithmetic in a handful of different forms
- Communicate your process and conclusion clearly and with appropriate units
- Identify confusing symbols or operations so you know what to review

Practice with Units. Perform the indicated operation and write your answer with the proper units.

- | | |
|------------------------------------|--------------------------------------|
| 1. \$301 + \$452 | 2. 835 miles + 406 miles |
| 3. 16075 yen + 5986 yen | 4. 768 cases − 513 cases |
| 5. 5280 feet − 355 feet | 6. \$10,001 − \$979 |
| 7. 8000 Chilean pesos × 10 | 8. 862 euros · 15 |
| 9. (7,456 km)(52) | 10. 1500 inches ÷ 3 |
| 11. 496 ounces ÷ 4 | 12. 1914 yuan ÷ 6 |
| 13. \$152 + \$399 + \$1,032 | 14. 862 meters · 36 · 2 |
| 15. 2935 mm ÷ 5 | 16. 1,000 liters − 628 liters |

Problem Solving with Whole Numbers. For each problem, decide which mathematical operation(s) is appropriate to use and then find the answer. Show your thinking with words, symbols, and/or pictures. Write your answer in a complete sentence.

- 17.** A savings account contained \$1,370. After a withdrawal of \$197 and a deposit of \$340, how much is now in the account?

Mathematical operation(s):

Solution:

- 18.** How many tablets should a pharmacist give a person who needs to take 2 tablets 3 times a day for 14 days?

Mathematical operation(s):

Solution:

Word Association. What operation is associated with each of the following words?

- 19.** total

- 21.** double

- 23.** goes into

- 25.** reduced by

- 20.** shared equally

- 22.** loss

- 24.** triple

- 26.** altogether

Order of Operations with Whole Numbers. Use the order of operations to complete each problem. Perform one operation at a time and write the answer in its place. Show each step vertically with an equal sign on each line. There are two examples to show you the proper form:

Example A:

$$\begin{aligned}2 \cdot 3 + 4(7 + 2) &= 2 \cdot 3 + 4(9) \\ &= 6 + 36 \\ &= 42\end{aligned}$$

Example B:

$$\begin{aligned}[10 \div (18 - 16) + 20] \div 5 &= [10 \div 2 + 20] \div 5 \\ &= [5 + 20] \div 5 \\ &= 25 \div 5 \\ &= 5\end{aligned}$$

27. $16 \div 4 + 7(4)(2)$

28. $40 \div 2 \cdot 5 + 1$

29. $100 - 4(18 - 2 + 8)$

30. $10 + 2[36 - (18 - 6)]$

31. Self Reflection. On a scale of 1-5, how confident are you with the material in this worksheet?

Were any of the exercises confusing or frustrating? If so, identify them here and write down your plan to master those exercises.

3 Fractions

4 Midterm Review

5 Rational Numbers

6 Final Review

Colophon

This book was authored in PreTeXt.