

# Homework/Extension

## Step 1: Adding Decimals Within 1

### National Curriculum Objectives:

Mathematics Year 5:(5F10) [Solve problems involving number up to three decimal places](#)  
Mathematics Year 5: (5M9a) [Use all four operations to solve problems involving measure \[for example, money\] using decimal notation, including scaling](#)

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Match the decimal numbers to create a given total. Adding decimals within 1 using hundredths and tenths, no exchanges.

**Expected** Match the decimal numbers to create a given total. Adding decimals within 1 using thousandths, hundredths and tenths, with exchanges.

**Greater Depth** Match the decimal numbers to create a given total. Adding decimals within 1 using thousandths, hundredths and tenths with multiple exchanges per question.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Complete the number sequences by following the given rule. Adding decimals within 1 using hundredths and tenths, no exchanges.

**Expected** Complete the number sequences by following the given rule. Adding decimals within 1 using thousandths, hundredths and tenths, with exchanges.

**Greater Depth** Complete the number sequences by following the given rule. Adding decimals within 1 using thousandths, hundredths and tenths with multiple exchanges per question.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

**Developing** Explain whether a given statement is correct or incorrect. Adding decimals within 1 using hundredths and tenths, no exchanges.

**Expected** Explain whether a given statement is correct or incorrect. Adding decimals within 1 using thousandths, hundredths and tenths, with exchanges.

**Greater Depth** Explain whether a given statement is correct or incorrect. Adding decimals within 1 using thousandths, hundredths and tenths with multiple exchanges per question.

More [Year 5 Decimals](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

# Adding Decimals Within 1

1. Match the decimal numbers pairs together that total 0.95.

0.82

0.65

0.85

0.81

0.05

0.9

0.13

0.3

0.14

0.1



VF  
HW/Ext

2. Complete the number sequences by following the given rule.

Rule

+ 0.02

A. 0.11, 0.13, 0.15,

+ 0.21

B. 0.22, 0.43,  0.85

+ 0.1

C. 0.55, 0.65,

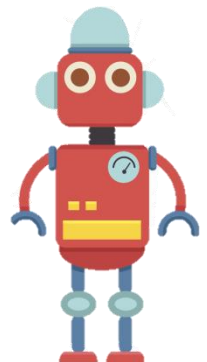


VF  
HW/Ext

3. Alfie wants to build a robot. The robot's legs need to be equal in length but he only has 0.85 metres of tubing left.



I have enough tubing to make each leg 0.44 metres and still have some left over.



Do you agree? Explain why.



RPS  
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## Adding Decimals Within 1

4. Match the decimal numbers pairs together that total 0.998.

0.844

0.653

0.649

0.659

0.869

0.345

0.339

0.129

0.349

0.154



VF  
HW/Ext

5. Complete the number sequences by following the given rule.

Rule

+ 0.015

A. 0.013, 0.028, 0.043,

+ 0.113

B. 0.021, 0.134,

0.36

+ 0.219

C. 0.115, 0.334,

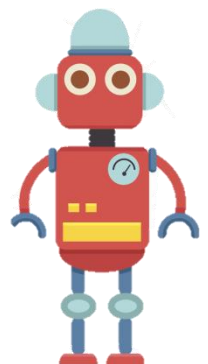


VF  
HW/Ext

6. Nathan wants to build a robot. The robot's legs need to be equal in length but he only has 0.559 metres of tubing left.



I have enough tubing to make each leg 0.229 metres and still have some left over.



Do you agree? Explain why.



RPS  
HW/Ext

## Adding Decimals Within 1

7. Match the decimal numbers pairs together that total 0.946.

0.397

0.489

0.478

0.399

0.467

0.479

0.468

0.549

0.547

0.457



VF  
HW/Ext

8. Complete the number sequences by following the given rule.

Rule

+ 0.059

A. 0.143, 0.202, 0.261,

+ 0.177

B. 0.095, 0.272,

0.626,

+ 0.265

C. 0.075, 0.34,

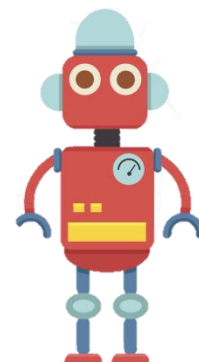


VF  
HW/Ext

9. Eliza wants to build a robot. The robot's legs need to be equal in length but she only has 0.849 metres of tubing left. The robot's arms will also need to be equal.



I have enough tubing to make each leg 0.269 metres and still have enough left over to make the arms 0.157 metres.



Do you agree? Explain why.



RPS  
HW/Ext

## Homework/Extension

### Adding Decimals Within 1

#### Developing

1.  $0.82 + 0.13$ ;  $0.65 + 0.3$ ;  $0.85 + 0.1$ ;  $0.81 + 0.14$ ;  $0.05 + 0.9$
2. A. 0.17; B. 0.85; C. 0.75,
3. Alfie is incorrect.  $0.44 \text{ metres} + 0.44 \text{ metres} = 0.88 \text{ metres}$ . He would need another 0.03 metres of tubing.

#### Expected

4.  $0.844 + 0.154$ ;  $0.653 + 0.345$ ;  $0.649 + 0.349$ ;  $0.659 + 0.339$ ;  $0.869 + 0.129$
5. A. 0.058; B. 0.247; C. 0.553, 0.772
6. Nathan is correct.  $0.229 \text{ metres} + 0.229 \text{ metres} = 0.458 \text{ metres}$ . There will be 0.101 metres of tubing left.

#### Greater Depth

7.  $0.397 + 0.549$ ;  $0.489 + 0.457$ ;  $0.478 + 0.468$ ;  $0.399 + 0.547$ ;  $0.467 + 0.479$
8. A. 0.32; B. 0.449; C. 0.605, 0.87
9. Eliza is incorrect.  $0.269 \text{ metres} + 0.269 \text{ metres} = 0.538 \text{ metres}$ .  $0.157 \text{ metres} + 0.157 \text{ metres} = 0.314 \text{ metres}$ .  $0.538 + 0.314 = 0.852 \text{ metres}$ . She would need another 0.003 metres of tubing.