# Adding & Subtracting Decimals

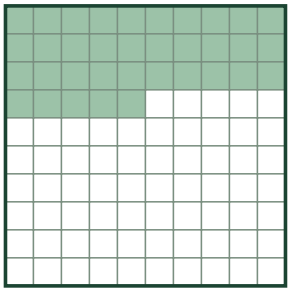


**ANSWER KEY** • Amplify Alignment: Grade 6 Accelerated, Unit 3, Lesson 12

**1. Select all the expressions that have a value greater than 1.**

- ☑ **A.** 0.72 + 0.31
- ☐ **B.** 0.6 + 0.04
- ☑ **C.** 0.45 + 0.58
- ☐ **D.** 0.9 + 0.09
- ☑ **E.** 0.5 + 0.501

**2. The diagram represents a square playground. The shaded part is a sandbox, and the unshaded part is grass. Each small square is 1 hundredth of the playground. Which equation shows how much more of the playground is grass than sandbox?**



- **A** 1 − 0.35 = 0.65
- **B** 0.35 + 0.65 = 1
- **C** 0.65 − 0.35 = 0.30
- **D** 1 + 0.35 = 1.35

**Problems 3–4: Determine each sum.**

**3.** **0.34 + 0.518** 0.858

**4.** **24.6 + 0.375** 24.975

# Adding & Subtracting Decimals



5. **Determine the sum: 3.7 + 0.28. Show or explain your thinking.**

**3.70 + 0.28 = 3.98**

6. **Determine the difference: 7.854 – 3.62. Show or explain your thinking.**

**7.854 – 3.620 = 4.234**

7. **Ken wrote a vertical calculation for 6.45 + 2.3. His work is shown. Did Ken find the sum correctly? Explain your thinking.**

**No. Ken wrote 2.3 as 2.03. The 3 is in the tenths place, so 6.45 + 2.30 = 8.75.**

```
  6.45
+ 2.03
------
  8.48
```

8. **Liz wrote a vertical calculation for 0.72 – 0.5. Her work is shown. Did Liz find the difference correctly? Explain your thinking.**

**No. Liz lined up 5 in the hundredths place. 0.5 is 5 tenths: 0.72 – 0.50 = 0.22.**

```
  0.72
– 0.05
------
  0.67
```