

Name (s) \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

## Error Analysis – INTEGERS

Read the word problem. Look at the students work and solution. Identify the error and describe it. Solve the problem correctly. Then share a strategy this student could use to prevent the same error in the future.

**A roller coaster at a theme park takes fans on an exciting ride. In the first 20 seconds, it carries its passengers up a 30-meter hill, plunges them down 30 meters, and takes them back up a 15-meter rise. How much higher or lower from the start of the ride are they after these 20 seconds?**

Incorrect Work/Solution	Identify and Explain the Error
$30 + (-30) + 15$ $= -60 + 15$ $= -45$ <p>The passengers are 45 meters lower from the start after 20 seconds.</p>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Correct Work/ Solution	Share a Strategy
	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

©Exceeding the CORE

Question # 1

Name (s) \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

## Error Analysis – INTEGERS

Read the word problem. Look at the students work and solution. Identify the error and describe it. Solve the problem correctly. Then share a strategy this student could use to prevent the same error in the future.

**A quarter back is sacked for a loss of 4 yards. On the next play, his team loses 10 yards. Then the team gains 12 yards on the third play. Write an addition expression to represent this situation. Then find the sum and explain its meaning.**

Incorrect Work/Solution	Identify and Explain the Error
$4 + (-10) + 12$ $= -6 + 12$ $= 6$ <p>The quarter back gained a total of 6 yards.</p>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Correct Work/ Solution	Share a Strategy
	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

©Exceeding the CORE

Question # 2

NAME: \_\_\_\_\_

BLOCK: \_\_\_\_\_ Date: \_\_\_\_\_

Name (s) \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

## Error Analysis – INTEGERS

Read the word problem. Look at the students work and solution. Identify the error and describe it. Solve the problem correctly. Then share a strategy this student could use to prevent the same error in the future.

**The temperature on the moon can vary from  $-172^{\circ}\text{C}$  to  $-126^{\circ}\text{C}$ . Find the difference between the maximum and minimum temperature.**

Incorrect Work/Solution	Identify and Explain the Error
$-172 - (-126)$ $= -172 + 126$ $= -46$ <p>The difference between the temperatures is <math>-46^{\circ}\text{F}</math>.</p>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Correct Work/ Solution	Share a Strategy
	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

Name (s) \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

## Error Analysis – INTEGERS

Read the word problem. Look at the students work and solution. Identify the error and describe it. Solve the problem correctly. Then share a strategy this student could use to prevent the same error in the future.

**Michelle had a balance of  $-\$43$  in her account. The bank charged her a fee of  $\$15$  for having a negative balance. What is her new balance?**

Incorrect Work/Solution	Identify and Explain the Error
$-43 - (-15)$ $= -43 + 15$ $= -28$ <p>Michelle's new balance is <math>-\\$28</math>.</p>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Correct Work/ Solution	Share a Strategy
	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>