

Name _____

FINDING SPIRIT STUDENT ANSWER SHEET

After working with each of the images in the Finding Spirit activity, please put your answers on this sheet

Image #1 Answers

Actual Distance Between Craters in Image #1:	_____ 684 _____	m
Measured Distance Between Craters in Image #1:	_____	mm
Scale of Image #1 = Actual / Measured =	_____	m/mm

Actual Range from crater #1 to <i>Spirit</i> in Image #1:	_____ 435 _____	m
Measured Range in Image #1 = Actual / Scale of Image #1:	_____	mm
Bearing to <i>Spirit</i> in Image #1 (NOW FIND SPIRIT!):	_____ 230 _____	degrees

Image #2 Answers

Actual Distance Between Two Largest Craters in Image #1:	_____	m
Measured Distance Between Craters in Image #2 (Circle them and measure!):	_____	mm
Scale of Image #2 (Actual Distance / Measured Distance):	_____	m/mm

Actual Range from Largest Crater in Image #1 to <i>Spirit</i> :	_____	m
Measured Range in Image #2 (Actual Range / Scale of Image #2):	_____	mm
Bearing from Crater in Image #1 to <i>Spirit</i> (NOW FIND SPIRIT!):	_____	degrees

Measured Distance Between Two Largest Craters in Image #2 (Circle and measure!):	_____	mm
Actual Distance (Measured Distance x Scale of Image #2):	_____	m

Measured Range to <i>Spirit</i> from Largest Crater in Image #2 (Measure it!):	_____	mm
Actual Range (Measured Range x Scale of Image #2) to <i>Spirit</i> :	_____	m
Bearing to <i>Spirit</i> from Largest Crater in Image #2 (Measure it!):	_____	degrees

Step 1: Find the
Scale of the
Current Image

Step 2: Find Spirit
In the Current
Image

Step 3: Find Actual
Dist. Between Two
Largest Craters

Step 4: Find Range
& Bearing to Spirit
From Largest Crater

Image #3 Answers

Actual Distance Between Two Largest Craters in Image #2: _____ m
Measured Distance Between Craters in Image #3 (**Circle them and measure!**): _____ mm
Scale of Image #3 (**Actual Distance / Measured Distance**): _____ m/mm

Actual Range from Largest Crater in Image #2 to *Spirit*: _____ m
Measured Range in Image #3 (**Actual Range / Scale of Image #3**): _____ mm
Bearing from Crater in Image #2 to *Spirit* (**NOW FIND SPIRIT!**): _____ degrees

Measured Distance Between Two Largest Craters in Image #3 (**Circle and measure!**): _____ mm
Actual Distance (**Measured Distance x Scale of Image #3**): _____ m

Measured Range to *Spirit* from Largest Crater in Image #3 (**Measure it!**): _____ mm
Actual Range (**Measured Range x Scale of Image #3**) to *Spirit*: _____ m
Bearing to *Spirit* from Largest Crater in Image #3 (**Measure it!**): _____ degrees

Image #4 Answers

Actual Distance Between Two Largest Craters in Image #3: _____ m
Measured Distance Between Craters in Image #4 (**Circle them and measure!**): _____ mm
Scale of Image #4 (**Actual Distance / Measured Distance**): _____ m/mm

Actual Range from Largest Crater in Image #3 to *Spirit*: _____ m
Measured Range in Image #4 (**Actual Range / Scale of Image #4**): _____ mm
Bearing from Crater in Image #3 to *Spirit* (**NOW FIND SPIRIT!**): _____ degrees

Measured Distance Between Two Largest Craters in Image #4 (**Circle and measure!**): _____ mm
Actual Distance (**Measured Distance x Scale of Image #4**): _____ m

Measured Range to *Spirit* from Largest Crater in Image #4 (**Measure it!**): _____ mm
Actual Range (**Measured Range x Scale of Image #4**) to *Spirit*: _____ m
Bearing to *Spirit* from Largest Crater in Image #4 (**Measure it!**): _____ degrees

Step 1: Find the Scale of the Current Image

Step 2: Find Spirit In the Current Image

Step 3: Find Actual Dist. Between Two Largest Craters

Step 4: Find Range & Bearing to Spirit From Largest Crater

Step 1: Find the Scale of the Current Image

Step 2: Find Spirit In the Current Image

Step 3: Find Actual Dist. Between Two Largest Craters

Step 4: Find Range & Bearing to Spirit From Largest Crater

Image #5 Answers

Actual Distance Between Two Largest Craters in Image #4: _____ m
Measured Distance Between Craters in Image #5 (**Circle them and measure!**): _____ mm
Scale of Image #5 (**Actual Distance / Measured Distance**): _____ m/mm

Actual Range from Largest Crater in Image #4 to *Spirit*: _____ m
Measured Range in Image #5 (**Actual Range / Scale of Image #5**): _____ mm
Bearing from Crater in Image #4 to *Spirit* (**NOW FIND SPIRIT!**): _____ degrees

WHERE IS SPIRIT?

Latitude: _____ **degrees** **Longitude:** _____ **degrees**

Step 1: Find the
Scale of the
Current Image

Step 2: Find Spirit
In the Current
Image