



Cosmic Math Mission

Solve these multi-step space adventures using your math skills!

Name: _____ Date: _____

1 ROCKET FUEL

A rocket has a main tank with 500 gallons of fuel. Engineers pump 120 gallons into each of the 3 booster engines. The leftover fuel is divided equally between 2 steer thrusters. How many gallons of fuel does each steer thruster get?

Work:

Answer: _____

2 ASTRONAUT NUTRITION

A team of 4 astronauts goes on a 10-day space trip. Each astronaut eats 3 meal packs every day. If their supply ship brought 150 meal packs, how many extra packs do they have left at the end?

Work:

Answer: _____

3 MARS ROVER BATTERY

A Mars rover starts the day with 240 watts of battery power. It drives for 8 hours, using 15 watts of power every hour. Then, it uses another 20 watts to send pictures back to Earth. How many watts of power are left in the battery?

Work:

Answer: _____

4 METEORITE HUNTING

Leo has 3 boxes of rare space rocks, with 18 rocks in each box. He donates 12 rocks to the science museum. He divides the rest of the rocks equally among his 6 friends. How many rocks does each friend get?

Work:

Answer: _____

5 SATELLITE TRACKING

Satellite A orbits Earth 14 times a day, and Satellite B orbits 12 times a day. Over 5 days, they orbit many times. However, a computer glitch causes them to miss 15 orbits in total. How many orbits did they actually complete?

Work:

Answer: _____

The space station has 8 huge solar wings, and each wing has 24 active panels. Astronauts turn off 16 panels to clean them. They divide the remaining working panels equally to power 8 different labs. How many panels power each lab?

Work:

Answer: _____

Answer Key

Cosmic Math Mission · Grade 7

1. A rocket has a main tank with 500 gallons of fuel. Engineers pump 120 gallons into each of the 3 booster engines. The leftover fuel is divided equally between 2 steer thrusters. How many gallons of fuel does each steer thruster get? **70**
2. A team of 4 astronauts goes on a 10-day space trip. Each astronaut eats 3 meal packs every day. If their supply ship brought 150 meal packs, how many extra packs do they have left at the end? **30**
3. A Mars rover starts the day with 240 watts of battery power. It drives for 8 hours, using 15 watts of power every hour. Then, it uses another 20 watts to send pictures back to Earth. How many watts of power are left in the battery? **100**
4. Leo has 3 boxes of rare space rocks, with 18 rocks in each box. He donates 12 rocks to the science museum. He divides the rest of the rocks equally among his 6 friends. How many rocks does each friend get? **7**
5. Satellite A orbits Earth 14 times a day, and Satellite B orbits 12 times a day. Over 5 days, they orbit many times. However, a computer glitch causes them to miss 15 orbits in total. How many orbits did they actually complete? **115**
6. The space station has 8 huge solar wings, and each wing has 24 active panels. Astronauts turn off 16 panels to clean them. They divide the remaining working panels equally to power 8 different labs. How many panels power each lab? **22**