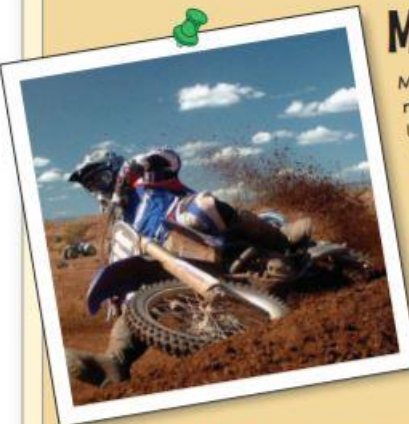


Extreme Sports Math Word Problems

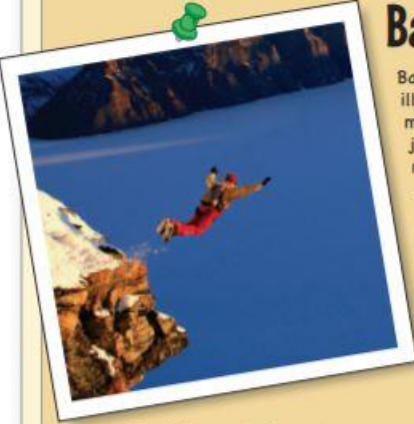


Motocross

Motocross is a type of motorcycle racing that started in 1906 in the United Kingdom. A motocross racer would zip around small trails known as scrambles. The sport evolved. Now a racer whirls his motorcycle around closed tracks in all types of weather conditions. The terrain is rough. A motocross racer speeds over jumps and bumps at about 50 mph.

Vocabulary: **Evolve** – to change slowly often into something better.
Terrain – a piece of land.

- 1 Add 12 racers and 19 racers and 27 racers.
- 2 What is the difference between this year and year 1906?
- 3 Steve completes a motocross race in 345 seconds. Terry completes the race in 257 seconds. How much faster was Terry than Steve?




Base Jumping

Base jumping is so risky that it is illegal in many places. What makes it so risky? A base jumper leaps off cliffs and man-made objects. A base jumper prefers jumping at a low altitude with only a few seconds to deploy the parachute. This is dangerous because it does not allow much time before the base jumper arrives at the ground. This does not give the base jumper much time if a problem arises.

Vocabulary: *Deploy* – to open up. *Illegal* – against the law.

- 1 Most BASE jumpers leap from under 2,000 ft. objects.
Which number sentence equals 2,000? $1,380 + 110 + 500$
or $1,390 + 110 + 500$
 - 2 Most BASE jumpers free fall for 1,000 ft.
What is the difference between 2,000 ft. and 1,000 ft.?
 - 3 Russian Valery Rozov jumped off Mt. Everest in 2013 to break the world record for the highest BASE jump. He jumped at 23,690 ft.
What is the difference between 23,690 ft and 2,000 ft?
-




Zorbing

Getting in a giant inflated ball and rolling down a hill is the sport known as zorbing. The big ball, or orb, is made of hard plastic. Inside the orb is a smaller ball. There is a layer of air separating the small ball and the larger plastic ball. The layer of air acts as a shock absorber for the rider as he travels over bumps. Zorbing is performed on a gentle slope or on level surfaces.

Vocabulary: **Inflated** – filled with air.
Shock absorber – device to absorb energy from sudden movements.

- 1 An average orb is about 10 ft. in diameter. What is 10 ft. and 10 ft. and 10 ft. and 10 ft. and 10 ft.?
 - 2 The record for the longest zorbing ride is 1,870 ft. What is difference between one mile (5,280 ft) and the longest zorbing ride?
 - 3 The record for the fastest zorbing ride was reached at 32 mph. What is the difference between a car traveling at 65 mph and the fastest orb?
-



Street Luge

Street Luge combines high levels of speed and risk. It is a sport similar to skateboarding and sledding. The sport started when skateboarders modified their boards so they could lie down. Now a street luge rider uses a wheeled sled to speed down paved surfaces. The sled is very close to the ground. As the rider speeds along, he is able to feel every bump and twist in the road.

Vocabulary: **Surfaces** – upper layer of land.
Modified – to change some parts while not changing other parts.

- 1 Most street luge riders travel at high speeds between 60 – 97 mph. Show this on a number line.
 - 2 There are about 1,200 active street luge riders in the world. Which number sentence is true? $900 + 100 + 100 = 1,200$ or $900 + 100 + 100 + 100 = 1,200$
 - 3 Bobby wants a lower luge sled. His sled is 5 inches above the ground. He wants it to be 1 inch off the ground. How many inches does he need to lower his sled?
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