Mixed Operations word problems

Read and answer each question:

Tumuku is an animal that lives in mountains. It's most favourite food is stones. A baby Tumuku can eat about 15 stones in 3 hours. An adult Tumuku needs more energy, so it eats about 90 stones in 5 hours. On a normal day Tumuku eats about 12 hours. Tumuku's babies go to school everyday except Sunday.

1. How many stones can a baby Tumuku eat in 10 hours?

2. How many stones can an adult Tumuku eat in 3 hours?

3. In a school there is lunch period for 1 hour. In a day total stones eaten in lunch is 500. How many Tumuku babies are studying in this school?

4. 12 million adult Tumukus live on planet Pumu. How many stones is eaten in 1 week (7 days) on planet Pumu by adults?

5. In a family there are 3 baby Tumukus and 2 adult Tumukus. How many stones will they eat in a single day?

6. 5 rockets can take 300 Tumukus from Pumu to Earth. How many rockets are needed to carry 6000 Tumukus from Pumu to Earth?

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Answers

1. In 1 hour baby eats = $15 \div 3 = 5$ stones.
   In 10 hours baby eats = $5 \times 10 = 50$ stones.

2. In 1 hour adult Tumuku eats = $90 \div 5 = 18$ stones.
   In 3 hours adult Tumuku eats = $18 \times 3 = 54$ stones.

3. Tumuku baby eats 5 stones in 1 hour.
   So number of babies = $500 \div 5 = 100$ babies.

4. In 1 hour adult Tumuku eats 18 stones.
   In 1 day Tumuku eats for 12 hours.
   In 1 day adult Tumuku eats $18 \times 12 = 216$ stones.
   In 1 week adult Tumuku eats = $216 \times 7 = 1512$ stones.
   In 1 week 12 million adult Tumukus eat = $12000000 \times 1512 = 18144000000$ stones

5. In 1 day 3 babies eat = 3 babies x 5 stones x 12 hours = 180 stones
   In 1 day 2 adults eat = 2 adults x 18 stones x 12 hours = 432 stones.
   Total stones eaten in 1 day = $180 + 432 = 612$ stones.

6. 1 rocket can take $300 \div 5 = 60$ Tumukus
   Rockets needed to carry 6000 Tumukus = $6000 \div 60 = 100$ rockets.