

Math 5a HW1.

#1. No. There are 25 cells, 25 is odd number.

#3.

$$\begin{aligned} & (1.5 : \frac{1}{3} - \frac{3}{8} : 0.25) \cdot 3.2 - 3.2 \cdot \frac{5}{8} = \\ & 3.2 \left(\frac{3}{2} : \frac{1}{3} - \frac{3}{8} : \frac{1}{4} - \frac{5}{8} \right) = \\ & = 3.2 \left(\frac{3}{2} \cdot \frac{3}{1} - \frac{3}{8} \cdot \frac{4}{1} - \frac{5}{8} \right) = \\ & = 3.2 \left(\frac{9}{2} - \frac{3}{2} - \frac{5}{8} \right) = \frac{16}{5} \cdot \left(3 - \frac{5}{8} \right) = \frac{16}{5} \cdot \frac{19}{8} = \\ & = \frac{2 \cdot 19}{5} = \frac{38}{5} = 7.6. \end{aligned}$$

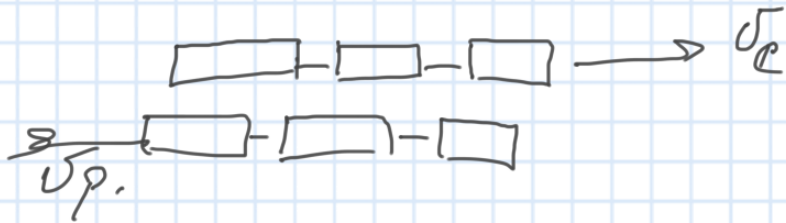
#2.

Numbers, ending in 0 are only multiples of 10,
or have factors 2 and 5.

So, these prime numbers should be

$$2, 3, 5, 7 \quad 2 \cdot 3 \cdot 5 \cdot 7 = 210.$$

#41.



$$56 \text{ km/h} + 84 \text{ km/h} = 140 \frac{\text{km}}{\text{h}}$$

$$\frac{9}{3600} = \frac{1}{400} = 0.0025$$

$$140 \cdot 0.0025 = 0.35 \text{ km}$$

or 350 m.

Answer: the length of the cargo train is 350 m.

#5,

Step 1. Fry both hamb. on 1 side 2m.

Step 2. turn one hamb. on the other side,
remove the second hamb. and

place the third hamb. to the pan. 2m.

Step 3. Remove the first hamb. (fully fried)

turn the third the the other side and
placed second hamb. on the pan, uncooked
side down. 2m.

Total 6 minutes,

#6.

$$35 : 7 = 5.$$

One elephant and one baby elephant eat 5 b. of food per day.

$$60 : 10 = 6.$$

One elephant and two baby elephant eat 6 b. of food per day. So 1 b. e. needs 1 b. of food per day, an adult elephant needs 4 b. of food per day.

#7. $S \rightarrow$ salary.

$1.2S \rightarrow$ increased by 20%.

$0.8(1.2)S = 0.96S \rightarrow$ decreased,

so final salary is 0.96 of initial salary.