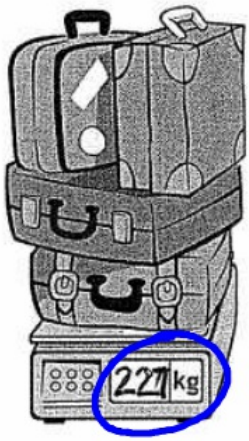
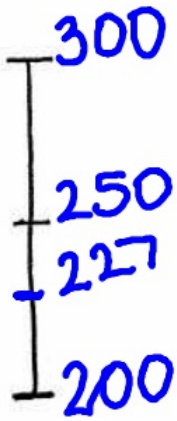
Name Answer Key Date 12-17-19

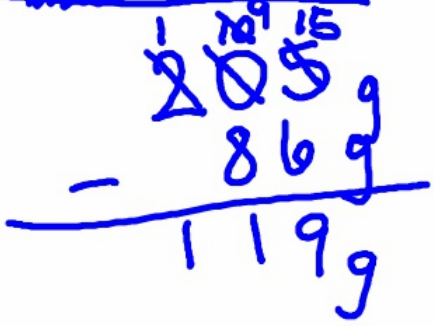
1. Paul is moving to Australia. The total weight of his 4 suitcases is shown on the scale to the right. On a number line, round the total weight to the nearest 100 kilograms.





The total weight is about 200 kg.

2. Paul buys snacks for his flight. He compares cashews to yogurt raisins. The cashews weigh 205 grams, and the yogurt raisins weigh 86 grams. What is the difference between the weight of the cashews and yogurt raisins?

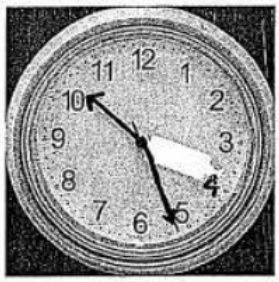


The difference is 119 g.

3. The clock to the right shows what time it is now.

10:26

Time Right Now



a. Estimate the time to the nearest 10 minutes.

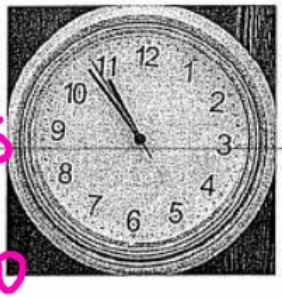
10:26 ≈ 10:30

10:30
10:25
10:20

b. The clock to the right show Paul's departure time. Estimate the time to the nearest 10 minutes.

10:53

Departure Time



10:53 ≈ 10:50

11:00
10:55
10:53
10:50

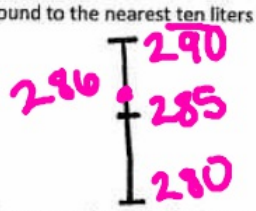
c. Use your answers from Parts (a) and (b) to estimate how long Paul has before his flight leaves.

$$\begin{array}{r} 10:\overset{4}{5}\overset{13}{3} \\ -\ 10:26 \\ \hline 27 \end{array}$$

He has 27 minutes before his flight.

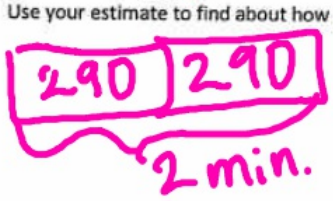
4. A large airplane uses about 286 liters of fuel every minute.

a. Round to the nearest ten liters to estimate how many liters of fuel get used every minute.



About 290 L of fuel are used every minute.

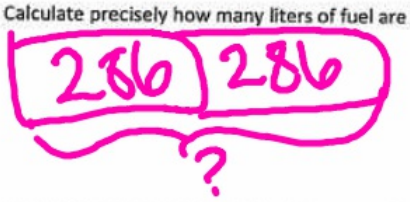
b. Use your estimate to find about how many liters of fuel are used every 2 minutes.



290
+ 290
580

About 580 L in 2 minutes.

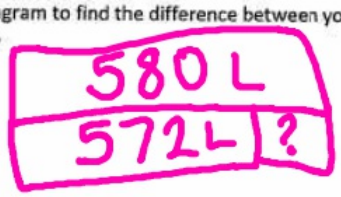
c. Calculate precisely how many liters of fuel are used every 2 minutes.



286 L
+ 286 L
572 L

Exactly 572 L are used in 2 mins.

d. Draw a tape diagram to find the difference between your estimate and the precise calculation.

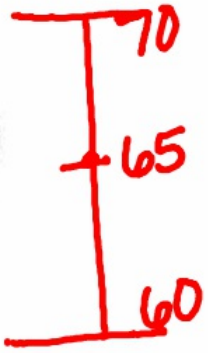


The difference is 8 L.

65+65=130

65
+65
130
+130
260

5. Baggage handlers lift heavy luggage into the plane. The weight of one bag is shown on the scale to the right.



a. One baggage handler lifts 4 bags of the same weight. Round to estimate the total weight he lifts. Then, calculate exactly.

65 | 65 | 65 | 65

4 bags ≈ 280kg
4 bags = 260 kg

70+70=140
70+70=140
280
300

b. Another baggage handler lifts luggage that weighs a total of [illegible] kilograms. Write and solve an equation to show how much more weight he lifts than the first handler in Part (a).

He lifts 40 kg more.

210
300kg
-260kg
40kg

c. The baggage handlers load luggage for 16 minutes. If they start at 10:15 p.m., what time do they finish?

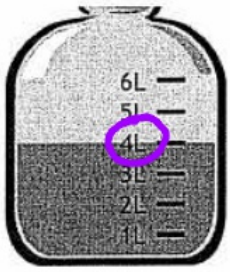
They get done at 10:31pm.

10:15
+ 16
10:31

d. One baggage handler drinks the amount of water shown below every day at work. How many liters of water does he drink during all 4 days of the week?

4 | 4 | 4 | 4

4x4=16L



He drinks 16L.

6. Complete as many problems as you can in 100 seconds. The teacher will time you and tell you when to stop.

3 x 1 = _____	2 ÷ 1 = _____	_____ = 20 ÷ 10	2 x 2 = _____	5 x _____ = 10	
_____ x 2 = 4	10 ÷ 5 = _____	10 x _____ = 30	_____ = 2 x 3	_____ = 12 ÷ 4	
4 x 3 = _____	15 ÷ 5 = _____	_____ x 4 = 16	_____ = 40 ÷ 10	2 x 4 = _____	
3 x 4 = _____	4 x _____ = 12	20 ÷ 4 = _____	_____ = 10 x 5	_____ x 5 = 25	
4 x _____ = 20	_____ = 10 ÷ 2	_____ x 3 = 18	10 x 6 = _____	30 ÷ 5 = _____	
3 x 6 = _____	_____ = 24 ÷ 4	5 x _____ = 35	_____ = 10 x 7	14 ÷ 2 = _____	
2 x 7 = _____	_____ x 4 = 28	_____ = 40 ÷ 5	10 x _____ = 80	_____ = 3 x 8	
24 ÷ 3 = _____	80 ÷ 10 = _____	36 ÷ 4 = _____	5 x 9 = _____	2 x _____ = 18	