

Decimals and Health Care Level 1/2

Many careers in health care require you to be able to add, subtract, multiply and divide decimals.



Job Number 1

You are the manager of a nursery and are required to complete most of the paper work for the nursery.

1. You have to calculate the wages for the staff at the nursery.

Calculate the following.

Jane works 37.5 hours and earns £5.89 p/h

Lisa earns £5.47 and works 22.75 hours.

Cath earns £6.25/h and works 22 hours

2. The nursery is a private nursery. It does however receive a small amount of money from the government. It gets £7.50 a day for every 1.5 child. If the nursery has 21 children, how much would the nursery receive a day?
3. You must also be around to administer any medicines required by the children. 1 bottle of medicine holds 0.20 litres of liquid, each portion given to a child is 5 millilitres. How many portions are in the bottle?
(1 litre = 1000ml)

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Job Number 2

You are an occupational therapist and have to help redesign a home for a new patient.

1. The garden is in a bad state and needs a concrete space so a wheelchair user can sit and move around in the garden. The part of the garden that needs to be changed is 10.75 meters long and 12.35 metres wide? What is the area of the concrete space? (area = length x width)
2. The kitchen work surfaces are too high for him to reach. He can reach 1.04 metres high. The surfaces are 1.47m, by how much does the surface need dropping?
3. You are working with his social worker to get him Disability Allowance. He is entitled to £48.70 per week, what is this over a year?
4. The man is gaining weight quite rapidly due to the lack of exercise. He has put on 21.5 lbs in 5 weeks. What is the average weight gain per week?



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Job Number 3

You are a midwife in a local GP surgery and are in charge of all the charts of different clients that come in to the surgery.

1. A baby weighs 7.7 lbs at birth, by the 5th visit the baby's weight has increased by 2.9 lbs. What is the baby's current weight?
2. The mother's weight increased by 21.8 lbs throughout the course of the pregnancy. 5 weeks after giving birth she is weighed at the clinic and has lost 13.9 lbs. What is her current weight, if she initially weighed 174 lbs?
3. You estimate that over the next four weeks the baby's weight will increase by 0.52 lbs a week. How much weight will the baby gain over these 4 weeks? What will the baby weigh?
4. If over the course of 6 months the baby's weight increases by 13.8 lb, what is the baby's average weekly weight gain?



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Answers

Job Number 1

You are the manager of a nursery and are required to complete most of the paper work for the nursery.

- You have to calculate the wages for the staff at the nursery.
Jane works 37.5 hours and earns £5.89 p/h $37.5 \times £5.89 = £220.88$
Lisa earns £5.47 and works 22.75 hours. $£5.47 \times 22.75 = £124.44$
Cath earns £6.25/h and works 22 hours. $£6.25 \times 22 = £137.00$
- The nursery is a private nursery. It does however receive a small amount of money from the government. It gets £7.50 a day for every 1.5 child.
If the nursery has 21 children, how much would the nursery receive a day?
 $21 \div 1.5 = 14$. $14 \times £7.50 = £105$
- You must also be around to administer any medicines required by the children. 1 bottle of medicine holds 0.20 litres of liquid, each portion given to a child is 5 millilitres. How many portions are in the bottle? (1 litre = 1000ml)
 $0.2 \text{ litre} = 200\text{ml}$. $200\text{ml} \div 5 = 40 \text{ portions}$

Job Number 2

You are an occupational therapist and have to help redesign a home for a new patient.

- The garden is in a bad state and needs a concrete space so a wheelchair user can sit and move around in the garden. The part of the garden that needs to be changed is 10.75 meters long and 12.35 metres wide? What is the area of the concrete space? (area = length \times width). $\text{Area} = 10.75 \times 12.35 = 132.76 \text{ m}^2$.
- The kitchen work surfaces are too high for him to reach. He can reach 1.04 metres high. The surfaces are 1.47m, by how much does the surface need dropping?
 $1.47 - 1.04 = 0.43\text{m}$ (43 cm)
- You are working with his social worker to get him Disability Allowance. He is entitled to £48.70 per week, what is this over a year? $£48.70 \times 52 = £2532.40$
- The man is gaining weight quite rapidly due to the lack of exercise. He has put on 21.5 lbs in 5 weeks. What is the average weight gain per week? $21.5 \div 5 = 4.3 \text{ lbs per week}$

Job Number 3

You are a midwife in a local GP surgery and are in charge of all the charts of different clients that come in to the surgery.

- A baby weighs 7.7 lbs at birth, by the 5th visit the baby's weight has increased by 2.9 lbs. What is the baby's current weight? $7.7 + 2.9 = 10.6 \text{ lbs}$
- The mother's weight increased by 21.8 lbs throughout the course of the pregnancy. 5 weeks after giving birth she is weighed at the clinic and has lost 13.9 lbs. What is her current weight, if she initially weighed 174 lbs? $174 + 21.8 - 13.9 = 181.9 \text{ lbs}$
- You estimate that over the next four weeks the baby's weight will increase by 0.52 lbs a week. How much weight will the baby gain over these 4 weeks? What will the baby weigh?
 $7.7 + (4 \times 0.52) = 9.78 \text{ lbs}$.
- If over the course of 6 months the baby's weight increases by 13.8 lb, what is the baby's average weekly weight gain? $13.8 \div 26 = 0.53 \text{ lb}$