20 minutes Day 1: Whole Number questions

Spend 20 minutes on this worksheet and it will help you to revise. Numerical answers are on the *second* page.

1) Kiren has won £24 567 234 and is quite happy. Round this figure to the nearest 100 000

2) What is £34.59 to the nearest pound?

3) Round off 34 893 to the nearest hundred

4) Write down four hundred and twenty seven thousand three hundred and six in figures

5) Multiply 234 by 93 using any method

6) What is 1997 – 498 ?

7) A settee costs £499 and armchairs cost £299 each. Algernon buys two settees and three armchairs. What is the total cost?

8) Evadne earns £8 per hour. One week, she works 7 hours on Monday, four hours on Tuesday and then she works five hours on each of the three remaining days. Calculate her total income for that week.

9) What is 1641 ÷ 3 ?

10) What is the largest number you can make with the digits 5, 9, 2, 0, 3, 7, 6, 0 ?

11) Calculate 861 ÷ 7

12) Two children are dividing biscuits between them (and ruining their teeth). The bigger child says 'two for me and one for you' and the smaller one goes along. If the packet contains 36 biscuits, how many does the smaller child end up with?

Now check your answers, and use the book (or friends) to revise anything you got wrong.

20 Minutes Day 2: Fractions questions

Spend 20 minutes on this. Answers are over the page.

1) Find $\frac{3}{4}$ of 16

2) What is 50% written as a fraction and as a decimal?

3) The train to Sutton is late on four days out of the last 28 days. What fraction of the time is the train late?

4) Cancel down $\frac{12}{18}$ as far as you can

5) *One third off!* the poster says in the shop. If the dress was £24 before the sale started, how much will it cost now?

6) 25% reduction! The claim is on the travel agent window. If the weekend trip to Prague cost £250 before the reduction, what will the trip cost now?

7) Find $\frac{2}{5}$ of £350

8) A small primary school has 68 boys and 72 girls. What fraction of the school pupils are girls?

9) Algernon divides a pizza into six equal slices. He then decides to eat just half a slice as he is trying to loose weight. What fraction of the pizza does Algernon actually eat?

10) Find 10% of £290

11) What is 15% written as a fraction and as a decimal?

12) One cup of rice to two cups of water says the recipe. What fraction of the mixture is rice?

Check your answers overleaf. Make sure you understand any questions that you got wrong! Use the book or someone else to talk through the steps

20 Minutes Day 3: Units, areas and volumes

As usual, spend 20 minutes on this worksheet and then check your answers with my answers overleaf. You will need a ruler.

1) How many grammes (g) are there in 1.5 Kilo grammes (Kg)

2) My rectangular kitchen is 5 metres long and 4 metres wide. What is the area of the floor?

3) The shape below is part of a new wall that is being built between two existing outbuildings. The plan is drawn to a scale of 2cm = 1m. How long is the wall in the real world?

4) I need to paint my hall. The area of the walls comes to 54 m^2. A litre of paint covers 12m^2. How many litres of paint do I need to give the walls *two* coats of paint?

5) Algernon goes to France. He knows that 1 mile is roughly the same as 1.6 kilometres. Algernon needs to drive across Paris, and the distance is 48 Km. How many miles is that?

6) A recipe calls for 300g of flour and two eggs and serves 4 people. What quantities of flour and eggs do you need for 6 people?

7) The food market has a special offer on tomatoes. You get 5Kg for £1.50. How much would 7Kg cost at the same rate?

8) How many milli-litres is 0.85 litres?

9) The classroom is a 'cuboid' (a shoe box shaped room). If the dimensions of the room are 7 metres by 5 metres and 3 metres tall, what is the volume of the room in cubic metres?

10) Evadne is 156 cm tall. How many metres tall is Evadne?

11) Jamilla is gravelling over her front garden. She has worked out that the job will need 1200 Kg of gravel. How many tonnes is this?

12) How many millilitres are there in a centilitre?

13) I have a tin water bottle that measures 5cm by 7cm and is 20cm tall. What is the volume of the bottle in ml?

14) One cup of dry rice to two cups of water is the recipe for cooked rice. I want 2.4Kg of cooked rice. How many *grammes* of dry rice do I need?

20 Minutes Day 4: Money!

As usual, try these questions in 20 minutes. Compare your answers with mine and check any differences.

1) Viola is paid £7.50 per hour and works 27 hours one week. How much is her pay for that week?

2) A ferry boat charges fares according to the poster below

   Adult   £5.60
   Child   £2.80
   Child and adult together   £8.00

   Kamaljit is taking herself and two other adults and 5 children across the river. What is the cheapest combination of tickets, and how much will the trip cost?

3) Find 20% of £850

4) "One quarter off all marked prices today!" says the poster. The marked price of a coat is £96. How much should the coat cost today?

5) I buy a low fat sandwich for 1.65, a bottle of water for 85p and ruin the whole thing by adding a packet of crisps for 45p. How much change do I get from a £5 note?

6) A mobile phone tariff charges 3p per text message and 10p per minute for voice calls. Frantiĉek sends 150 text messages and talks for 70 minutes one month. What is the total charge?

7) The maximum fare on the bus is £1.70 and children go half price. Aaron is paying for two adults and three children. What is the fare?

8) Find 30% of £90

9) A parcel costs £1.50 to send for the first 500g, then there is an additional cost of 20p for each extra 100g above 500g. Fred is sending a parcel that weighs 800g. How much does it cost to send the parcel?

10) Find $\frac{3}{4}$ of £12.48