Ratio and Proportion Worksheet (1)

Write the correct answer:

1. Beef must be cooked for 30 minutes for every 1kg. How long would it take to cook:

   2 kgs? _____

   4 kgs? _____

   6 kgs? _____

   8 kgs? _____

2. To make 1 litre of jam, I use 100 strawberries.
   How many strawberries do I need to make:

   2 litres? _____   3.5 litres? _____

3. I need to collect 30 stickers. Each bag of crisps contains 3 stickers.
   How many bags will I need to buy?

   _____

4. The mother bear is fed 4 fish for every 2 fish that her cub is fed. How many fish would the cub get if the mother is fed:

   10 fish? _____   20 fish? _____

5. There are 10 boys for every 30 girls at the disco.
   How many boys are there if there are:

   60 girls? _____   90 girls? _____

Ratio and Proportion Worksheet (1)

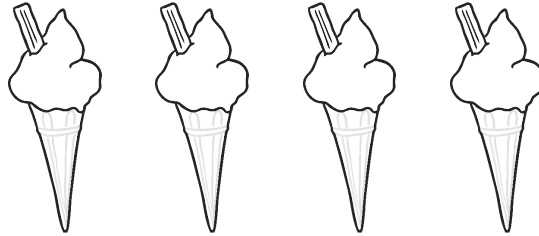Write the correct answer:

1. In 1 week, I eat 4 ice creams. How many ice creams will I eat in:

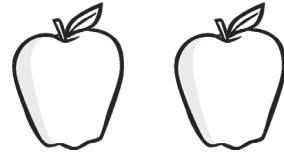   2 weeks? _____

   4 weeks? _____
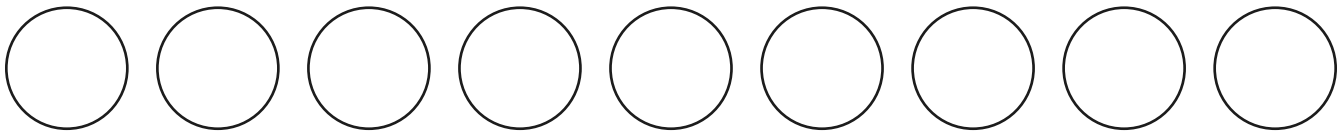
   5 weeks? _____

   6 weeks? _____

2. For every 2 apples I buy, I get 1 banana.

   For every 4 apples I buy, I will get ____bananas.

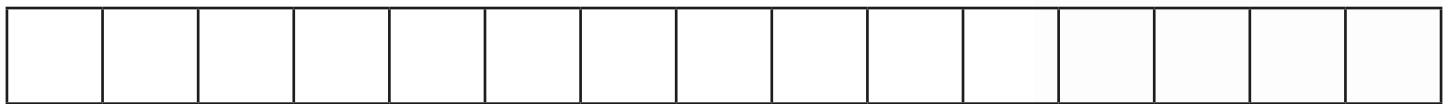   For every 8 apples I buy, I will get____bananas.

3. Colour in 1 in every 3 circles below.

   How many coloured circles in every 6? _____

   How many coloured circles in every 15? _____

4. Colour in 2 squares in every 5 below.

   How many coloured squares in every 10? _____

   How many coloured squares in every 15? _____

Ratio and Proportion Worksheet (1)

Write the correct answer:

1. Beef must be cooked for 40 minutes for every 1kg. How long would it take to cook:

    2 kgs? _____

    5.5 kgs? _____

    6.25 kgs? _____

    8.75 kgs? _____

2. To make ¾ litre of jam, I use 45 strawberries.
    How many strawberries do I need to make:

    2 litres? _____   3.5 litres? _____

3. I need to collect 66 stickers. Each bag of crisps contains 3 stickers.
    How many six-pack bags will I need to buy?

    _____ How many bags will be left over?   _____

4. The mother bear is fed 6 fish for every 3 fish that her cub is fed. How many fish
    would the cub get if the mother is fed:

    18 fish? _____   26 fish? _____

5. There are 6 boys for every 9 girls at the disco. How many boys are there if there are:

    54 girls? _____   144 girls? _____

Ratio and Proportion Worksheet (2)

Solve these problems:

1. 1:2 and 3:6 are equivalent ratios (they both have the same proportions).
   Circle the 2 ratios that share the same proportions.

   3:9   2:10   5:10   3:6   10:2   6:2

2. Carry on this sequence of ratios: 3:4, 6:8, 9:12, __:__, __:__

3. In my pocket I have 3 red dice and 2 plastic army men.

   What is the ratio of dice to army men? _____

4. What is 5:25 in its simplest form? _____

5. On a treasure map of the school I am using 1cm for every 10m. The school is

   50m wide. How wide would the school be on my treature map? _____ cm

6. I answered 2 out of every 3 questions correctly in a test. The test had 9 questions

   in it altogether. How many questions did I answer correctly? _____

Ratio and Proportion Worksheet (2)

Write the correct answer:

1. Beef must be cooked for 40 minutes for every 1kg. How long would it take to cook:

    2 kgs? _____

    4 kgs? _____

    6 kgs? _____

    8 kgs? _____

2. To make ½ litre of jam, I use 50 strawberries.
    How many strawberries do I need to make:

    2 litres? _____   3 litres? _____

3. I need to collect 80 stickers. Each bag of crisps contains 4 stickers.
    How many bags will I need to buy?

    _____

4. The mother bear is fed 5 fish for every 2 fish that her cub is fed. How many fish would the cub get if the mother is fed:

    10 fish? _____   20 fish? _____

5. There are 6 boys for every 9 girls at the disco. How many boys are there if there are:

    27 girls? _____   72 girls? _____

Ratio and Proportion Worksheet (2)

Solve these problems:

1. In my pirate fleet I have 3 rafts and 18 ships.

    What is the ratio of rafts to ships in its simplest form? _____

2. On a map I am using, the scale is 1cm for every 10 000m. I am mapping a 55km

    journey. How long would the journey be on the map? _____

3. On a test of 'Hairstyles of the Ming Dynasty', I answered 16 questions out
    of every 24 correctly. There were 96 questions. How many did I get right?

    _____

4. There are 28 zedonks and 56 zorses at the Zebra Zoo. What is the ratio of

    zedonks to zorses in its simplest form? _____

5. In Y4, there are 24 children with black hair and 42 children with brown hair.
    There are half as many children with blonde hair as there are with black hair.
    What is the overall ratio of blond, black and brown hair colours in Y4 in its'

    simplest form? _____

6. Balin got £1.20 pocket money and saved 40p. Thorin got £3 and saved £2.

    Who saved the largest proportion of pocket money? _____

Ratio and Proportion Worksheet (3)

Solve these problems:

1. In my pencil pot, I have 10 pens and 15 pencils.

    What is the ratio of pens to pencils? _____

2. On a map I am using, the scale is 1cm for every 10km. If I am mapping a

    5000km journey, how many cm is it on the map? _____

3. I answered 7 out of every 10 questions correctly in a test that has 100 questions.

    How many did I answer correctly altogether? _____

4. In a zoo, there were 80 meerkats and 75 raccoons.

    What is the ratio of meerkats to raccoons? _____

5. I measured my stride when walking and found it to be 80cm.

    I then walked for 16m. How many strides would I have taken? _____

6. For every 2 brown haired pupils, there were 3 black haired. There were 8 brown

    haired pupils. How many black haired pupils were there? _____

Ratio and Proportion Worksheet (1) **Answers**

Write the correct answer:

1. Beef must be cooked for 30 minutes for every 1kg. How long would it take to cook:

   2 kgs? **60 mins / 1 hour**

   4 kgs? **120 mins / 2 hours**

   6 kgs? **180 mins / 3 hours**

   8 kgs? **240 mins / 4 hours**

2. To make 1 litre of jam, I use 100 strawberries.
   How many strawberries do I need to make:

   2 litres? **200**   3.5 litres? **350**

3. I need to collect 30 stickers. Each bag of crisps contains 3 stickers.
   How many bags will I need to buy?

   10

4. The mother bear is fed 4 fish for every 2 fish that her cub is fed. How many fish
   would the cub get if the mother is fed:

   10 fish? **5**   20 fish? **10**

5. There are 10 boys for every 30 girls at the disco.
   How many boys are there if there are:

   60 girls? **20**   90 girls? **30**

Ratio and Proportion Worksheet (1) **Answers**

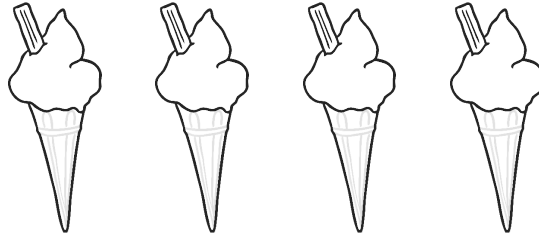Write the correct answer:

1. In 1 week, I eat 4 ice creams. How many ice creams will I eat in:

   2 weeks? **8**

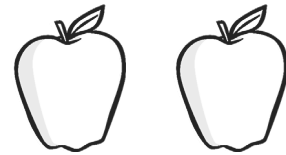   4 weeks? **16**

   5 weeks? **20**
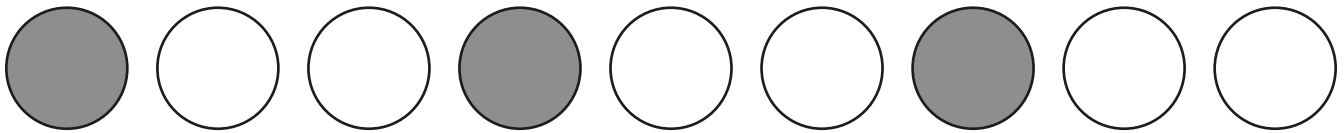
   6 weeks? **24**

2. For every 2 apples I buy, I get 1 banana.

   For every 4 apples I buy, I will get **2** bananas.

   For every 8 apples I buy, I will get **4** bananas.

3. Colour in 1 in every 3 circles below.

   How many coloured circles in every 6? **2**

   How many coloured circles in every 15? **5**

4. Colour in 2 squares in every 5 below.

   How many coloured squares in every 10? **4**

   How many coloured squares in every 15? **6**

Ratio and Proportion Worksheet (1) **Answers**

Write the correct answer:

1. Beef must be cooked for 40 minutes for every 1kg. How long would it take to cook:

   2 kgs? **80 mins or 1 hour 20 mins**

   5.5 kgs? **220 mins or 3 hours 40 mins**

   6.25 kgs? **250 mins or 4 hours 10 mins**

   8.75 kgs? **350 mins or 5 hours 50 mins**

2. To make ¾ litre of jam, I use 45 strawberries.
   How many strawberries do I need to make:

   2 litres? **120** 3.5 litres? **210**

3. I need to collect 66 stickers. Each bag of crisps contains 3 stickers.
   How many six-pack bags will I need to buy?

   4 How many bags will be left over? **2**

4. The mother bear is fed 6 fish for every 3 fish that her cub is fed. How many fish would the cub get if the mother is fed:

   18 fish? **9**   26 fish? **13**

5. There are 6 boys for every 9 girls at the disco. How many boys are there if there are:

   54 girls? **36**   144 girls? **96**

Ratio and Proportion Worksheet (2) **Answers**

Solve these problems:

1. 1:2 and 3:6 are equivalent ratios (they both have the same proportions).
   Circle the 2 ratios that share the same proportions.

   3:9   2:10   (5:10)   (3:6)   10:2   6:2

2. Carry on this sequence of ratios: 3:4, 6:8, 9:12, **12:16, 15:20**

3. In my pocket I have 3 red dice and 2 plastic army men.

   What is the ratio of dice to army men? **3:2**

4. What is 5:25 in its simplest form?**1:5**

5. On a treasure map of the school I am using 1cm for every 10m. The school is
   50m wide. How wide would the school be on my treature map? **5cm**

6. I answered 2 out of every 3 questions correctly in a test. The test had 9 questions
   in it altogether. How many questions did I answer correctly? **6**

Ratio and Proportion Worksheet (2) **Answers**

Write the correct answer:

1. Beef must be cooked for 40 minutes for every 1kg. How long would it take to cook:

   2 kgs? **80 mins / 1 hour 20 mins**

   4 kgs? **160 mins / 2 hours 40 mins**

   6 kgs? **240 mins / 3 hours**

   8 kgs? **320 mins / 5 hours 20 mins**

2. To make ½ litre of jam, I use 50 strawberries.
   How many strawberries do I need to make:

   2 litres? **200** 3 litres? **300**

3. I need to collect 80 stickers. Each bag of crisps contains 4 stickers.
   How many bags will I need to buy?

   20

4. The mother bear is fed 5 fish for every 2 fish that her cub is fed. How many fish
   would the cub get if the mother is fed:

   10 fish? **4**   20 fish? **8**

5. There are 6 boys for every 9 girls at the disco. How many boys are there if there are:

   27 girls? **18** 72 girls? **48**

Ratio and Proportion Worksheet (2) **Answers**

Solve these problems:

1. In my pirate fleet I have 3 rafts and 18 ships.
   What is the ratio of rafts to ships in its simplest form? **1:6**

2. On a map I am using, the scale is 1cm for every 10 000m. I am mapping a 55km journey. How long would the journey be on the map? **5.5 cm**

3. On a test of 'Hairstyles of the Ming Dynasty', I answered 16 questions out of every 24 correctly. There were 96 questions. How many did I get right? **64**

4. There are 28 zedonks and 56 zorses at the Zebra Zoo. What is the ratio of zedonks to zorses in its simplest form? **1:2**

5. In Y4, there are 24 children with black hair and 42 children with brown hair. There are half as many children with blonde hair as there are with black hair. What is the overall ratio of blond, black and brown hair colours in Y4 in its' simplest form? **2:4:7**

6. Balin got £1.20 pocket money and saved 40p. Thorin got £3 and saved £2. Who saved the largest proportion of pocket money? **Thorin**

Ratio and Proportion Worksheet (3) **Answers**

Solve these problems:

1. In my pencil pot, I have 10 pens and 15 pencils.

   What is the ratio of pens to pencils? **10:15 or 2:3**

2. On a map I am using, the scale is 1cm for every 10km. If I am mapping a

   5000km journey, how many cm is it on the map? **500cm**

3. I answered 7 out of every 10 questions correctly in a test that has 100 questions.

   How many did I answer correctly altogether? **70**

4. In a zoo, there were 80 meerkats and 75 raccoons.

   What is the ratio of meerkats to raccoons? **80:75 or 16:15**

5. I measured my stride when walking and found it to be 80cm.

   I then walked for 16m. How many strides would I have taken? **20**

6. For every 2 brown haired pupils, there were 3 black haired. There were 8 brown

   haired pupils. How many black haired pupils were there? **12**