Year 4 · Number: Getting to Know Tenths

Name: _____ Date: _____

Hi there! This sheet helps you turn tenths into fractions and decimals, put them in order, and add and subtract fractions. Take your time and show your thinking.

Warm-up

1. Write 7 tenths as a decimal.

2. Write 0.4 as a fraction.

3. What is 6 ÷ 10?

4. What is 0.3 × 10?

Practice

5. Put these decimals in order from smallest to largest: 0.8, 0.2, 0.5, 0.1

6. Which is larger, 3/10 or 7/10? Explain how you know.

7. Work out 4/8 + 3/8.

8. Work out 5/6 + 4/6. Write your answer as a mixed number.

9. Mele is baking at the Avondale market. A recipe uses 300 grams of flour. She makes 1/3 of the recipe. How much flour does she need?

10. At kapa haka practice, 1/4 of the group are drinking water. That is 5 tamariki. How many tamariki are in the whole group?

Challenge

11. Tama walked 1.3 km to the dairy and then 0.4 km home to his nana's. How far did he walk altogether? Then, how much further was the first part of his walk than the second?

12. Aroha eats 2/5 of a chocolate block and her brother eats 1/5. How much is left? Write the leftover amount as a fraction, then say whether 2/5 is the same as 4/10.

Answer key (for parents and tutors)

1. Write 7 tenths as a decimal.
   7 tenths means 7/10. The first column after the decimal point is the tenths column, so we write 0.7. Answer: 0.7
2. Write 0.4 as a fraction.
   0.4 has 4 in the tenths column, so it means 4 tenths. As a fraction that is 4/10. Answer: 4/10
3. What is 6 ÷ 10?
   Dividing by 10 makes each digit move one column smaller, so the 6 (ones) becomes 6 tenths. 6 ÷ 10 = 0.6. Answer: 0.6
4. What is 0.3 × 10?
   Multiplying by 10 makes each digit move one column bigger, so 3 tenths becomes 3 ones. 0.3 × 10 = 3. Answer: 3
5. Put these decimals in order from smallest to largest: 0.8, 0.2, 0.5, 0.1
   Compare the tenths: 1 tenth, 2 tenths, 5 tenths, 8 tenths. In order from smallest to largest: 0.1, 0.2, 0.5, 0.8
6. Which is larger, 3/10 or 7/10? Explain how you know.
   Both fractions have the same denominator (tenths), so we just compare the numerators (top numbers). 7 is more than 3, so 7/10 is larger. Answer: 7/10
7. Work out 4/8 + 3/8.
   The denominators are the same, so we add the numerators: 4 + 3 = 7. The answer is 7/8. Answer: 7/8
8. Work out 5/6 + 4/6. Write your answer as a mixed number.
   Add the numerators: 5 + 4 = 9, giving 9/6 (an improper fraction). Since 6/6 = 1, we have 9/6 = 1 whole and 3/6 left over. Answer: 1 3/6
9. Mele is baking at the Avondale market. A recipe uses 300 grams of flour. She makes 1/3 of the recipe. How much flour does she need?
   Finding 1/3 of 300 means dividing by 3: 300 ÷ 3 = 100. Answer: 100 grams of flour
10. At kapa haka practice, 1/4 of the group are drinking water. That is 5 tamariki. How many tamariki are in the whole group?
    If 1/4 of the group is 5, then the whole group is 4 lots of 5: 5 × 4 = 20. Answer: 20 tamariki
11. Tama walked 1.3 km to the dairy and then 0.4 km home to his nana's. How far did he walk altogether? Then, how much further was the first part of his walk than the second?
    Add the distances: 1.3 + 0.4 = 1.7 km altogether. To find how much further the first part was, subtract: 1.3 − 0.4 = 0.9 km. Answers: 1.7 km altogether, and the first part was 0.9 km further.
12. Aroha eats 2/5 of a chocolate block and her brother eats 1/5. How much is left? Write the leftover amount as a fraction, then say whether 2/5 is the same as 4/10.
    Together they ate 2/5 + 1/5 = 3/5. The whole block is 5/5, so what is left is 5/5 − 3/5 = 2/5 left. For the second part: 2/5 means 2 out of 5 equal parts. If we split each part in half we get 4 out of 10 parts, so 2/5 = 4/10, yes, they are equivalent.