

Fractions – Loop Activity

Purpose

To express one number as a fraction of another. To work with mixed numbers. To practise working with word problems.

Preparation

Print and cut out loop cards. One set of cards per group of students. Suggest printing each set of cards onto a different colour of paper and laminating or printing onto strong card.

Group size

Suggest groups of 3.

Task

Get students into groups and give each group a set of cards. They should find the START card and read the question on the right-hand side of the card. They should find the answer to that question on the left-hand side of another card. They continue matching cards until the whole loop is finished. The last question should match the answer on the START card.

Groups may wish to make an actual loop or just place cards under each other.

Answers

There is an answer page at the end of the resource to print for your use during the activity.

$$\frac{4}{9}$$

START

Ten out of fifteen people in a book club are going out for a meal. What is this as a fraction?

$$\frac{2}{3}$$

Out of 250 people who work in a shop 20 work only on Mondays, 100 work only at weekends and the rest work 5 weekdays. What fraction work at the weekend?

$$\frac{2}{5}$$

Tom wraps gifts in a designer store. He wraps 5 in blue paper, 3 in red paper and 6 in silver paper. What fraction of all the gifts does he wrap in red?

$$\frac{3}{14}$$

An animal charity is raising money. $\frac{2}{5}$ goes towards new accommodation and the rest towards feeding costs. What fraction will they use for feeding costs?

$$\frac{3}{5}$$

Sarah works for 30 hours a week. She works 20 hours in the office and the rest in the stockroom. What fraction of her hours does she spend in the stockroom?

$$\frac{1}{3}$$

In a sale a TV has been reduced from £450 to £225. By what fraction has it been reduced?

$\frac{1}{2}$

In a class of 28 students 7 of them travel by bus. What fraction don't travel by bus?

 $\frac{3}{4}$

Four colleagues are comparing how much they each paid towards the cost of a trip to London. John paid £250, Tim paid £225, Russell paid £275 and Aneela paid £250. What fraction of the total amount did John pay?

 $\frac{1}{4}$

In one hour, Jeff spends 10 minutes at the photocopier, 10 minutes making tea, 20 minutes on the computer and 20 minutes on the phone. What fraction of his total time does he spend making tea?

$$\frac{1}{6}$$

Javid has saved £200 out of his monthly salary of £1800. What fraction has he saved?

$$\frac{1}{9}$$

A 7m tree trunk is cut into equal pieces. One piece measures 35cm. What fraction of the trunk is it?

$$\frac{1}{20}$$

In Abi's apprenticeship, she must spend at least 7 hours a week on research. If she works 35 hours per week, what fraction can she spend on other work?

$$\frac{4}{5}$$

Out of 1203 people who went to the cinema 402 saw the new Marvel film. Approximately what fraction was this?

$$\frac{1}{3}$$

The cost of renting a city room has gone up from £400 to £450 over of a period of two years. By what fraction has the cost increased?

$$\frac{1}{8}$$

Jess loads boxes into vans. Each van holds 8 boxes. There are 132 boxes to load in one shift. How many vans does she load?

$$16\frac{1}{2}$$

Jackie is a member of a golf club. She gets a discount at the local gym and pays £360 per year. A normal member would pay £420 per year. What is the fraction of the charge for normal members that she is saving?

$$1\frac{1}{7}$$

Jaz has to fill boxes with eggs. He puts half a dozen eggs in each box. He puts all of the 427 eggs into boxes. How many boxes does he use?

$$71\frac{1}{6}$$

The number of dogs in a dog show increased from 45 in 2018 to 65 in 2019. What fraction has the number of dogs increased by?

ANSWERS

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