Christmas maths escape room for IGCSE and GCSE: KS3 / MYP

IGCSE Math Revision · MYP / KS3 (ages 11 to 14) · Student sheet

Name _____ Class _____ Date _____

No calculator needed.

Starter (5 minutes)

1. Work out 9×6.

2. Find half of 86.

3. Work out $100 - 37$.

Main activity (36 minutes)

Cut out the cards. Each code unlocks the next card.

Lock 1: The toy shelves

The elves are counting toys.

a. There are 8 shelves with 12 toys on each. How many toys are there? This is code 1.

Code for lock 1: _____

Lock 2: The wrapping table

Four elves share the wrapping.

a. Code 1 presents are shared equally between 4 elves. How many does each elf wrap? This is code 2.

Code for lock 2: _____

Lock 3: The reindeer pen

The reindeer need a new fence.

a. A rectangular pen is code 2 metres long and 10 metres wide. Find its perimeter in metres. This is code 3.

Code for lock 3: _____

Lock 4: The cocoa machine

The cocoa machine needs a number.

a. Find 25% of code 3, then add 3. This is code 4.

Code for lock 4: _____

Lock 5: The sleigh bells

Some bells are gold.

a. There are code 4 bells and 3/5 of them are gold. How many are gold? This is code 5.

Code for lock 5: _____

Lock 6: The workshop door

The last lock.

a. Solve $3x + 6 = 4 \times$ code 5. The value of x opens the door.

Code for lock 6: _____

Extension

1. Find the mean of all six codes.