Communication Progress

You need

★ a set of Communication Progress cards (see copymaster)

★ 2 classmates

TECHNOLOGY

New inventions and innovations have changed the way we communicate.

Sometimes, the person most associated with a particular invention was not the first to have the idea, but it was their work on that idea that had the most impact.

Activity

The 4 digits in the year 2005 can be used to make various equations, for example,

$$2 + 0 + 0 + 5 = 7$$
; $5 \times 2 \times 0 - 0 = 0$; $5 - 2 + 0 + 0 = 3$.



With two classmates, use the four digits from one Communication Progress card to make expressions that equal each number from 0 to 9. Use each digit in the year once in each expression. You can add, subtract, multiply, or divide the digits.

I should be able to make lots of expressions with these digits!

Record your answers as equations (you may have some gaps). For example:



An expression is a collection of numbers and symbols. An expression that includes an equals sign is known as an equation.



Share out the remaining cards. Working individually, repeat the process for each card.

- a. Share your results with your two classmates. Were there any numbers that you couldn't find expressions for? See if your classmates can help!
- b. For which years could you only make a few equations? Why?

Game

With your two classmates, play as follows.

- Shuffle the invention cards and place them face down in a pile. Take 2 cards. Keep one and place the other upside down in front of the person on your left. (Use what you learnt from the **Activity** to decide which card to give away.)
- When each player has a card in front of them, pick up the card you have been given and take another one from the pile. You should now have 3 cards in your hand.

Using any of your 3 cards, make one expression for each number from 0 to 9. Record your answers as equations (0 = _______).

 Set a time limit. The winner is the person who has made expressions for the most numbers when the time is up. Telephone
(Alexander Graham Bell)

Smart phone
Internet-multimediaenabled smart phone

17

1973



Mobile phone
(Martin Cooper)



