

NUMERACY



TITLE: PLACE VALUE

AGE GROUP: 7 - 8

DURATION: 30 – 45 minutes

LEARNING OUTCOME: L03: Support learners in the development of appropriate literacy and numeracy skills for life

KEY CONCEPTS: use their understanding of the place value (magnitude) of numbers - whole numbers, decimal numbers and fractions; develop an eye for detail (curiosity) when thinking about monetary values.

In this session, learners use whole numbers, fractions and decimals when assessing the quantity of money involved in the choices available to the actors in the scenarios.

MATERIALS NEEDED:

1. Writing materials – pen, pencil, paper
2. Orange or play dough
3. Coins or design your own coinage /bank notes.

LESSON DESCRIPTION:

Activity one:

When we buy gifts for ourselves or others, we pay with money. Sometimes we make our own gifts for the people we care about instead of buying them. For example, we may (often) design our own “Thank you”, “Mother’s day”, “Father’s Day” cards etc. The activity sheet provided for the session contains a price list of various cards that the learners may want to for various people.

If instead of making a card on each of these occasions, the child decides to buy a card, they will need to know how much it will cost. Let the child decide on which three occasions they will want to buy special cards. After choosing the occasions, they will estimate the total cost of the cards. The child will need to complete the section of the activity sheet showing the total cost of the cards. They will need to briefly discuss why they chose to buy these cards. Was money a reason why they decided to buy or not buy a certain card?

Activity two:

Children get the chance to practice the identification of the decimal value of common fractions. This skill will be useful in subsequent lessons involving money.



Split the play dough into two equal parts. Keep on splitting each part into two equal parts until you have eight equal parts.

A2. 1: Let the child (children) write the value of each part in fraction and decimal.

A2. 2: Let the child (children) add together the bits in twos (e.g. $1/8 + 1/8$), then in twos again until all the parts come together to form the original dough.

Clues

1. Size matters. Check the sum of money involved so see how much you will spend (give away) or receive. Always check to be sure.
2. Know the decimal value of common fractions e.g. One-half, one-third, one-fourth and one-fifth
3. Know how to add fractions and decimals

$$2/4 + 1/4 = 3/4$$

$$0.22 + 0.34 = 0.56$$

WORKSHEETS

ACTIVITY 1: CARDS: GIFTS

| | 1 | 2 | 3 | 4 |
|--------------------|-------|-------|-------|-------|
| Birthday cards | £1.99 | £2.50 | £2.99 | £3 |
| Mother's Day cards | £3.99 | £1.50 | £4.99 | £2 |
| Father's Day cards | £1.99 | £2.50 | £2.99 | £2.49 |
| Christmas Cards | £1.99 | £2.50 | £2.99 | £3 |
| Easter Cards | £1.99 | £2.80 | £2.99 | £3 |
| Thank you cards | £1.49 | £2.80 | £3.99 | £2 |



What special occasions would you buy the cards for:

- i.
- ii.
- iii.

What will the total cost of the cards be?

Did you think about money when choosing the cards?

ACTIVITY 2: FRACTIONS AND DECIMALS

$$1/1 = 1$$

$$1/2 = 0.50$$

$$1/4 = 0.25$$

$$1/8 = 0.125$$

$$1/8 + 1/8 = 2/8 = 1/4 = 0.25$$

$$1/4 + 1/4 = 2/4 = 1/2 = 0.50$$

$$1/2 + 1/2 = 2/2 = 1/1 = 1$$