These questions should be done after the worksheets set for the day. They are there as challenges and not all children will find these accessible. Try one and if they get stuck then talk them through how to solve them and then make another question for them using a similar format before attempting the next problem. (See answers on sheet below)

Challenge questions

4a. A shop is having a sale and everything is reduced by $\frac{1}{4}$.

24p
20p
48p
44p
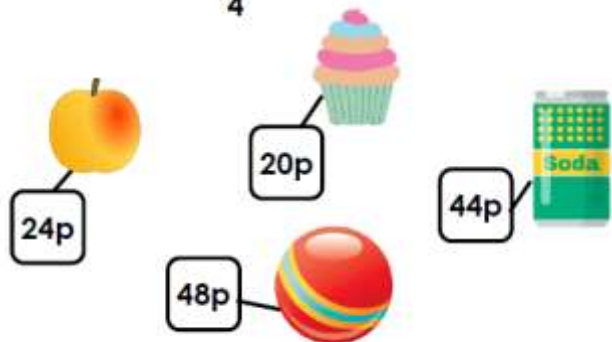
What are the new prices?

8a. Each child has 1m and 20cm of ribbon. Yian thinks he has cut the most.

Yian: I used $\frac{6}{8}$ of the ribbon.

Tess: I used $\frac{2}{3}$ of the ribbon before stopping.

Is he correct? Explain why.

8b. Each child is swimming 48 lengths of the pool in a school competition. Jack thinks he has travelled the farthest.

Fiona: I swam $\frac{2}{3}$ of the distance before stopping.

Jack: I swam $\frac{3}{4}$ of the distance before stopping.

Is he correct? Explain why.

6. Stefan has 20 erasers. He gives $\frac{4}{10}$ to his cousin and $\frac{2}{5}$ to his sister.

How many does he have left?

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4a. A shop is having a sale and everything is reduced by $\frac{1}{4}$.

20p

Soda

44p

24p

48p
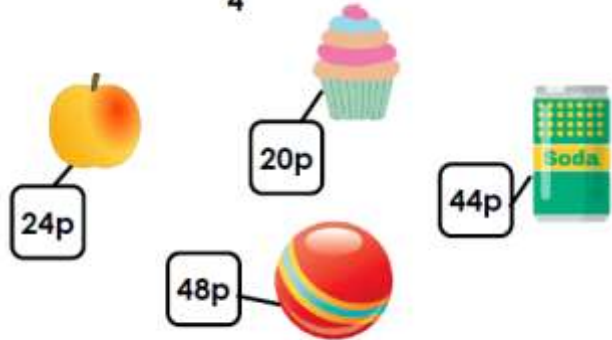
What are the new prices?

Work this out by using $\frac{1}{4}$ of 24p etc

Answers are $\frac{1}{4}$ of 24 = 6p

$\frac{1}{4}$ of 20 = 5p

$\frac{1}{4}$ of 44 = 11p

$\frac{1}{4}$ of 48 = 12p

You then need to subtract the answers from the amounts that items cost initially.

Peach = 18p, cupcake = 15p, soda = 33p, ball = 36p.

(This one is hard!)

8a. Each child has 1m and 20cm of ribbon. Yian thinks he has cut the most.

Yian: I used $\frac{6}{8}$ of the ribbon.

Tess: I used $\frac{2}{3}$ of the ribbon before stopping.

Is he correct? Explain why.

Convert 1m 20cm into cm = 120cm. Then find $\frac{6}{8}$ of 120 = 90cm

$\frac{2}{3}$ of 120 = 80cm   so Yian is wrong because he only has 80 cm.

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8b. Each child is swimming 48 lengths of the pool in a school competition. Jack thinks he has travelled the farthest.

I swam $\frac{2}{3}$ of the distance before stopping.

Fiona

I swam $\frac{3}{4}$ of the distance before stopping.

Jack

Is he correct? Explain why.

Find $\underline{2}$ of 48 = 32
3

Find $\underline{3}$ of 48 = 36
4

So Jack is correct

6. Stefan has 20 erasers. He gives $\frac{4}{10}$ to his cousin and $\frac{2}{5}$ to his sister.

How many does he have left?

Find $\underline{4}$ of 20 = 8 and then find $\underline{2}$ of 20 = 8 so he has 4 left
$10 5$