

A Day at the Pumpkin Farm

Autumn math for grades 2–3

1. The leaf-raking pictograph

Lena, Ben and Tim raked leaves. Key: one leaf picture = 5 leaves

Lena	
Ben	
Tim	

- a) How many leaves did Lena rake? _____
- b) Ben raked 15 leaves MORE than Lena. How many leaves is that? _____ Draw Ben's row of leaf pictures.
- c) Tim raked 10 leaves LESS than Lena. How many leaves is that? _____ Draw Tim's row.
- d) How many leaves did the three children rake altogether? _____ How many leaf pictures is that? _____

2. Apple pie fractions

Grandma baked apple pies. Colour or circle the right answer.



- a) The shaded part is
 $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{4}$



- b) The shaded part is
 $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{4}$



- c) The shaded part is
 $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{4}$



- d) Draw lines to cut this pie into 4 equal parts

Now colour the pies:



- e) colour $\frac{1}{2}$



- f) colour $\frac{1}{4}$



- g) colour $\frac{3}{4}$

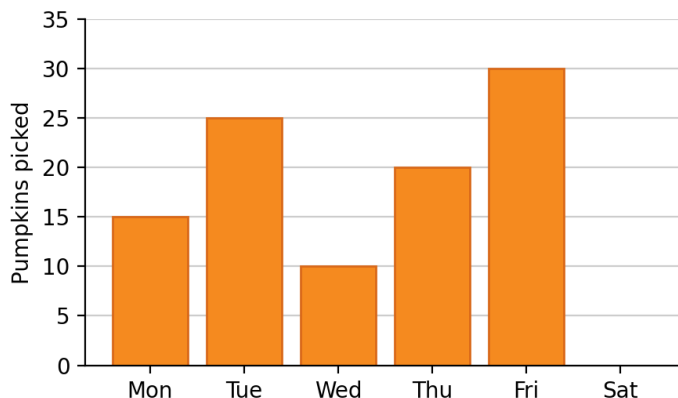


- h) colour $\frac{1}{2}$
How many pieces is that?

- i) A pie is cut into 4 equal pieces. Ben eats 1 piece and Lena eats 1 piece. What fraction of the pie is left? _____
- j) Biscuit the dog ate HALF of a pie that was cut into 4 pieces. How many pieces did he eat? _____ Grandma is not happy!

3. The pumpkin graph

The farmer picked pumpkins every day. The graph shows how many — but the Saturday bar is missing.



- a) On which day did he pick the most? _____ The least? _____ What is the difference?

- b) How many pumpkins on Tuesday and Thursday together? _____
- c) How many more on Friday than on Monday and Wednesday together? _____
- d) On Saturday he picked half as many as on Friday. How many? _____ Draw the Saturday bar.
- e) How many pumpkins in the whole week, Monday to Saturday? _____
- f) He needs 100 pumpkins for the market. Does he have enough? How many extra, or how many short? _____
- g) He sells each pumpkin for \$2. How much money does he get for Wednesday's pumpkins?

4. The farmer's secret word

Solve each problem. Then find the answer in the code table and write its letter. Read the letters from top to bottom.

Problem	Answer	Letter
$25 + 25$		
$60 - 13$		
$8 + 8 + 8$		
$70 - 28$		
$19 + 16$		
$100 - 37$		
$14 + 14$		

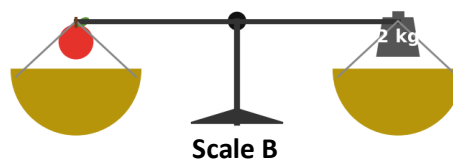
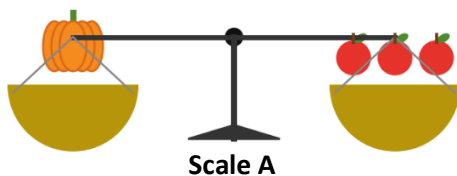
Answer	Letter
24	M
28	N
35	K
36	T
42	P
47	U
50	P
63	I

The secret word (the biggest thing growing on the farm):

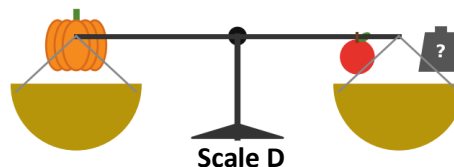
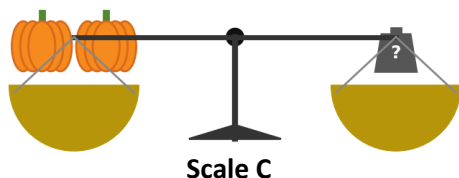
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5. The pumpkin scales

All the pumpkins weigh the same, and all the apples weigh the same. The scales are balanced.



a) Scale B: one apple weighs _____ kg. Scale A: one pumpkin weighs the same as _____ apples, so a pumpkin weighs _____ kg.



b) What weight balances Scale C? _____ kg c) What weight balances Scale D? _____ kg

6. The hidden numbers

Every picture hides a number. The same picture always hides the same number. Find them!

$$\text{pumpkin} + \text{pumpkin} = 10$$

$$\text{apple} + \text{pumpkin} = 8$$

$$\text{star} = \text{pumpkin} + \text{apple}$$

$$\text{acorn} + \text{acorn} + \text{acorn} = 12$$

pumpkin = _____ apple = _____ leaf = _____ acorn = _____

Now use the numbers to work these out:

$$\text{star} - \text{apple} = \boxed{}$$

$$\text{pumpkin} + \text{acorn} + \text{apple} = \boxed{}$$

$$\text{star} + \text{star} = \boxed{}$$

$$\text{acorn} - \text{apple} = \boxed{}$$

Answer Key (for the teacher)

1. a) 25 b) 40 leaves, 8 pictures c) 15 leaves, 3 pictures d) 80 leaves, 16 pictures.

2. a) $\frac{1}{2}$ b) $\frac{1}{4}$ c) $\frac{3}{4}$ d) two lines through the centre e) 1 of 2 pieces f) 1 of 4 g) 3 of 4 h) 4 of 8 pieces i) $\frac{1}{2}$ (two quarters are left) j) 2 pieces.

3. a) Friday 30, Wednesday 10, difference 20 b) 45 c) $30 - 25 = 5$ d) 15 e) $15 + 25 + 10 + 20 + 30 + 15 = 115$ f) yes, 15 extra g) \$20.

4. 50 P, 47 U, 24 M, 42 P, 35 K, 63 I, 28 N → PUMPKIN.

5. a) apple 2 kg; pumpkin = 3 apples = 6 kg b) 12 kg c) 8 kg

6. pumpkin 5, apple 3, leaf 8, acorn 4. Then: $8 - 3 = 5$; $5 + 4 + 3 = 12$; $8 + 8 = 16$; $4 - 3 = 1$.