

Activity Booklet 2 Answers

Activity 1.1 Talk Maths	This an open-ended task with many possible answers. While playing the game, encourage the children to talk about the place value of the digits.
Activity 1.2 Key Skills	While playing the game, encourage the children to talk about the rounding process, ensuring they are rounding up and down correctly.
Activity 1.3 Using and Applying	<ol style="list-style-type: none">1. 7,075 correctly rounds to 7,080.2. 43,297 rounded to the nearest 1,000 equals 43,000.3. a) 34.728 rounded to two d.p. equals 34.73. b) 1,398,307 rounded to the nearest hundred thousand equals 1,400,000. c) 893.6 rounded to the nearest whole number equals 894.4. The following numbers round to 90,000 when rounded to the nearest ten thousand: 85,265, 94,610, 88,579, 91,323 and 86,091.
Assess and Review 1.4	Encourage the children to notice that the child answering the question has got the place value of the digits mixed up. The correct answer is seventy-three thousand and twenty-nine.
Activity 2.1 Talk Maths	This an open-ended task with many possible answers. While finding the totals of pairs of numbers or finding the difference between a larger number and a smaller number, encourage the children to talk about the mental or written method of addition and subtraction they use.

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Activity 2.2 Key Skills	Ugo's cape is 757mm long. Andy's is 18.3cm longer. How long is Andy's cape in cm? 94cm	Ellie jumps 23.8cm further than Rosie. Ellie jumps 0.63m. How far does Rosie jump in cm? 39.2cm
	Alex battled 439 villains last year. She defeated 395. How many defeated her? 44 villains	Ugo has used 4,982 fireballs this year. This is 375 more than last year. How many did he use last year? 4,607 fireballs
	Ugo has battled 583 villains this year and Ellie has battled 493. How many villains have they battled altogether? 1,076 villains	Andy has rescued two bags of stolen money from a villain's car. There is £53.67 in one bag and £204.98 in the second bag. How much money is there altogether? £258.65
	Chloe has set herself a target of defeating 1,000 villains this year. So far, she has defeated 648 villains. How many more does she need to defeat to reach her target? 352 villains	At the start of the week, Alex has 1 litre of an invisibility potion. She uses 397ml on Monday and 208ml on Tuesday. How much does she have left by Wednesday? 395ml
Activity 2.3 Using and Applying	1. $£35.79 + £30.28 = \mathbf{£66.07}$ 2. $£50 - (£26.47 + £7.08) = \mathbf{£16.45}$ 3. $£18.67 + (£7.08 \times 2) + £35.79 = \mathbf{£68.62}$ 4. $(£50 \times 2) - (£30.28 + £26.47) = \mathbf{£43.25}$	
Assess and Review 2.4	Encourage the children to notice that the child answering the question hasn't made each calculation equal; they have given numbers which give the answers 23 and 17. Encourage the children to give pairs of numbers that do give equal answers e.g. $4 + 1 = 5$ and $11 - 6 = 5$.	

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Activity 3.1 Talk Maths

Here are all the possible answers to adding together two of the fractions:

$$\frac{1}{6} + \frac{3}{8} = \frac{13}{24}$$

$$\frac{1}{6} + \frac{1}{2} = \frac{2}{3}$$

$$\frac{1}{6} + \frac{2}{3} = \frac{5}{6}$$

$$\frac{1}{6} + \frac{7}{10} = \frac{13}{15}$$

$$\frac{1}{6} + \frac{5}{7} = \frac{37}{42}$$

$$\frac{1}{6} + \frac{3}{4} = \frac{11}{12}$$

$$\frac{1}{6} + \frac{4}{5} = \frac{29}{30}$$

$$\frac{3}{8} + \frac{1}{2} = \frac{7}{8}$$

$$\frac{3}{8} + \frac{7}{10} = 1 \frac{3}{40} \text{ or } \frac{43}{40}$$

$$\frac{3}{8} + \frac{5}{7} = 1 \frac{5}{56} \text{ or } \frac{61}{56}$$

$$\frac{3}{8} + \frac{3}{4} = 1 \frac{1}{8} \text{ or } \frac{9}{8}$$

$$\frac{3}{8} + \frac{4}{5} = 1 \frac{7}{40} \text{ or } \frac{47}{40}$$

$$\frac{1}{2} + \frac{2}{3} = 1 \frac{1}{6} \text{ or } \frac{7}{6}$$

$$\frac{1}{2} + \frac{7}{10} = 1 \frac{1}{5} \text{ or } \frac{6}{5}$$

$$\frac{1}{2} + \frac{5}{7} = 1 \frac{3}{14} \text{ or } \frac{17}{14}$$

$$\frac{1}{2} + \frac{3}{4} = 1 \frac{1}{4} \text{ or } \frac{5}{4}$$

$$\frac{1}{2} + \frac{4}{5} = 1 \frac{3}{10} \text{ or } \frac{13}{10}$$

$$\frac{2}{3} + \frac{7}{10} = 1 \frac{11}{30} \text{ or } \frac{41}{30}$$

$$\frac{2}{3} + \frac{5}{7} = 1 \frac{8}{21} \text{ or } \frac{29}{21}$$

$$\frac{2}{3} + \frac{3}{4} = 1 \frac{5}{12} \text{ or } \frac{17}{12}$$

$$\frac{2}{3} + \frac{4}{5} = 1 \frac{7}{15} \text{ or } \frac{22}{15}$$

$$\frac{7}{10} + \frac{5}{7} = 1 \frac{29}{70} \text{ or } \frac{99}{70}$$

$$\frac{7}{10} + \frac{3}{4} = 1 \frac{9}{20} \text{ or } \frac{29}{20}$$

$$\frac{7}{10} + \frac{4}{5} = 1 \frac{1}{2} \text{ or } \frac{3}{2}$$

$$\frac{5}{7} + \frac{3}{4} = 1 \frac{13}{28} \text{ or } \frac{41}{28}$$

$$\frac{5}{7} + \frac{4}{5} = 1 \frac{18}{35} \text{ or } \frac{53}{35}$$

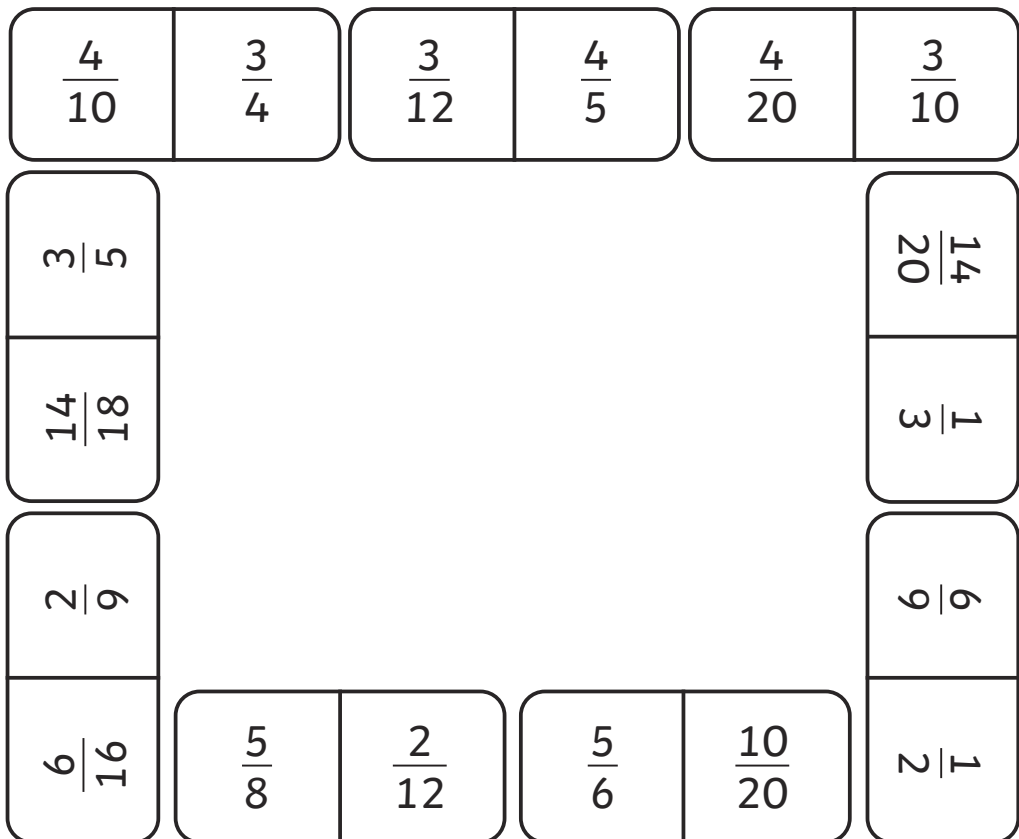
$$\frac{3}{4} + \frac{4}{5} = 1 \frac{11}{20} \text{ or } \frac{31}{20}$$

$$\frac{3}{8} + \frac{2}{3} = 1 \frac{1}{24} \text{ or } \frac{25}{24}$$

Ensure the children can add together fractions which have different denominators by using a common multiple.

Activity 3.2 Key Skills

To make fractions that total one whole, the dominoes should make a loop as such:



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<p>Activity 3.3 Using and Applying</p>	<p>1. $\frac{1}{3} + \frac{1}{5} = \frac{5}{15} + \frac{3}{15} = \frac{8}{15}$ 2. $\frac{1}{4} + \frac{1}{7} = \frac{7}{28} + \frac{4}{28} = \frac{11}{28}$</p> <p>3. $\frac{3}{8} + \frac{1}{6} = \frac{18}{48} + \frac{8}{48} = \frac{26}{48} = \frac{13}{24}$ 4. $1 - \left(\frac{1}{3} + \frac{2}{5}\right) = 1 - \frac{11}{15} = \frac{4}{15}$</p>
<p>Assess and Review 3.4</p>	<p>Encourage the children to notice that the child answering the question hasn't correctly converted the mixed number to identify that the calculation to solve is $\frac{14}{12} - \frac{?}{12} = \frac{9}{12}$. Therefore, the correct missing part of the calculation is $\frac{5}{12}$.</p>

<p>Activity 4.1 Talk Maths</p>	<ol style="list-style-type: none"> This scale is increasing in increments of 10m, therefore the green superhero is flying 50m high. This scale is increasing in increments of 12m, therefore the yellow superhero is flying 96m high. This scale is increasing in increments of 9m, therefore the blue superhero is flying 27m high.
<p>Activity 4.2 Key Skills</p>	<p>While playing the game, encourage the children to identify if the measurements need converting before they can be compared.</p>
<p>Activity 4.3 Using and Applying</p>	<ol style="list-style-type: none"> <p>a) 10cm < 150mm</p> <p>b) 2,050ml > 2l</p> <p>c) 1,000g < 1.5kg</p> <p>500g = 0.5kg</p> <p>5,000g = 5kg</p> <p>55g = 0.055kg</p> <p>550g = 0.55kg</p> <p>1,200ml – 700ml = 0.5 litres</p>







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Assess and Review 4.4
Encourage the children to notice that the child answering the question hasn't converted 2.6km into metres correctly. The correct answer should be Callum because 2600m > 2080m.

Activity 5.1 Talk Maths
 Yellow superhero = **(4,5)** Walkie-talkie = **(0,4)** Blue superhero = **(-3,2)**
 Ball blaster = **(2,1)** Shrink-ray = **(-4,0)** Red superhero = **(3,-1)**
 Spy-drone = **(-2,-2)** Green superhero = **(-4,-4)**

Activity 5.2 Key Skills
The cards match up to make the following reflections:

Activity 5.3 Using and Applying

Object	Original Coordinate	Translation	Finishing Coordinate
	(5,5)	Left 6, Down 4	(-1,1)
	(-4,2)	Right 8, Down 5	(4,-3)
	(-2,-4)	Right 4, Up 3	(2,-1)
	(1,-3)	Left 3, Up 6	(-2,3)
	(2,3)	Left 7, Down 2	(-5,1)
	(-5,-2)	Right 1, Up 4	(-4,2)

Assess and Review 5.4
Encourage the children to notice that the child answering the question has translated the shape instead of reflecting it. The correct answer should be: