Vertex Academy

Year 3 Maths workbook

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Year 3 Maths: Numbers to 1,000: Hundreds, Tens and Ones

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. What is the 6 worth in 462?

2. Write six hundred and four in numbers.

3. Which is the biggest: 739, 793, 379 or 397?

4. How many hundreds, tens and ones are in 850?

5. Put 506, 560 and 56 in order from smallest to largest.

Spot the mistake

6. What is wrong? "In 352, the 5 is worth 5."

7. What is wrong? "Three hundred and six is written 3006."

8. What is wrong? "98 is bigger than 412 because 9 is bigger than 4."

Year 3 Maths: Counting in Groups, Rounding and Estimating

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. There are 3 boxes of 100 pens, 5 packs of 10 pens and 8 single pens. How many pens is that?

2. Round 76 to the nearest 10.

3. Round 451 to the nearest 100.

4. Round 349 to the nearest 100.

5. Estimate 402 + 297 by rounding each number to the nearest 100.

Spot the mistake

6. What is wrong? "362 rounds to 300 because it starts with 3."

7. What is wrong? "45 rounds to 40."

8. What is wrong? "649 rounds to 700 because 9 is big."

9. What is wrong? "An estimate is a wild guess."

Year 3 Maths: Skip Counting, Odd and Even Numbers

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. Which of these is even: 357, 471, 538 or 925?

2. Count on in 4s: 12, 16, 20, __

3. Count back in 5s: 45, 40, 35, __

4. Which of these is in both the 2s count and the 5s count: 15, 25, 30 or 45?

5. Count back in 100s: 864, 764, __

Spot the mistake

6. What is wrong? "47 is even because 4 is even."

7. What is wrong? "Counting in 10s from 295, the next number is 296."

8. What is wrong? "Counting in 3s gives only odd numbers."

9. What is wrong? "Counting back in 4s from 40: 40, 36, 34, 30."

Year 3 Maths: Adding and Subtracting up to 1,000

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. 45 + __ = 100

2. 600 + 300

3. 256 + 70

4. 263 + 48

5. A bus has 36 people on it. 18 get off and 25 get on. How many are on the bus now?

Spot the mistake

6. What is wrong? "For 137 + 54, line up the 5 under the 1."

7. What is wrong? "In 352 – 128, do 8 – 2 = 6 because it is easier."

8. What is wrong? "34 + 76 = 100."

9. What is wrong? "After renaming, leave the extra ten out."

Year 3 Maths: Multiplying and Dividing with Groups

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. 4 × 6

2. 8 × 5

3. 3 × 21

4. 32 ÷ 4

5. 18 kiwifruit are shared equally between 3 lunchboxes. How many go in each lunchbox?

Spot the mistake

6. What is wrong? "4 × 3 means 4 + 3 = 7."

7. What is wrong? "2 × 23 = 26, doing only 2 × 3."

8. What is wrong? "12 ÷ 0 = 0."

9. What is wrong? "24 ÷ 3 = 21, by taking away 3 once."

Year 3 Maths: Unit Fractions: One Equal Part

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. A pizza is cut into 8 equal slices. What fraction is one slice?

2. Which is the biggest: 1/5, 1/10, 1/3 or 1/8?

3. What is 1/2 of 10 apples?

4. Count in thirds: 1/3, 2/3, __

5. Put 1/2, 1/12 and 1/4 in order from smallest to largest.

Spot the mistake

6. What is wrong? "1/8 is bigger than 1/4 because 8 is bigger than 4."

7. What is wrong? "A shape cut into 4 pieces of any size shows quarters."

8. What is wrong? "1/3 of 6 eggs is 3 eggs."

9. What is wrong? "4/4 is more than one whole."

Year 3 Maths: Comparing Fractions and Finding Equal Ones

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. Which is the biggest: 4/10, 7/10, 2/10 or 5/10?

2. Put 5/6, 2/6 and 4/6 in order from smallest to largest.

3. Which of these is one whole: 3/4, 5/5, 1/5 or 4/5?

4. 1/2 = __/8

5. Is 2/3 the same amount as 4/6?

Spot the mistake

6. What is wrong? "2/4 is more than 1/2 because 2 is more than 1."

7. What is wrong? "4/4 is four wholes."

8. What is wrong? "1/2 = 2/3 because the top is one less than the bottom in both."

9. What is wrong? "To compare 5/8 and 3/8, look at the 8s."

Year 3 Maths: Adding Fractions and Finding Fractions of Numbers

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. 2/7 + 3/7

2. 9/10 − 4/10

3. What is 1/4 of 24?

4. 1/3 of the pencils in a tin is 8 pencils. How many pencils are in the whole tin?

5. 1/8 + 2/8 + 4/8

Spot the mistake

6. What is wrong? "1/8 + 2/8 = 3/16."

7. What is wrong? "1/3 of 15 is 15 − 3 = 12."

8. What is wrong? "If 1/4 of a set is 3, the whole set is 3 + 4 = 7."

9. What is wrong? "5/6 − 2/6 = 3/0."

Year 3 Maths: Dollars, Cents and Giving Change

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. How many cents make $1?

2. Which coins and notes make $17 with the fewest pieces?

3. A sandwich costs $6 and 50 cents and a juice costs $2. What is the total?

4. You pay for a $14 toy with a $20 note. How much change do you get?

5. An ice cream costs $3 and 20 cents. You pay with a $5 note. How much change do you get?

Spot the mistake

6. What is wrong? "$2 and 5 cents is the same as $2 and 50 cents."

7. What is wrong? "$1 is 10 cents."

8. What is wrong? "The change from $10 for $6 and 50 cents is $4 and 50 cents."

9. What is wrong? "To make $35, use a $30 note."

Year 3 Maths: True or False? Number Sentences and Patterns

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. Which is true: 456 < 465, 456 > 465, 465 < 456 or 456 = 465?

2. 350 − __ = 120

3. Is 20 ÷ 4 = 2 + 3 true or false?

4. What comes next: 6, 10, 14, 18, __

5. 9 + 6 = __ + 10

Spot the mistake

6. What is wrong? "8 + 4 = __ + 7, so the missing number is 12."

7. What is wrong? "313 > 330 because 313 ends in a bigger digit."

8. What is wrong? "The next number in 2, 4, 6, 8 is 9."

9. What is wrong? "The < sign opens towards the smaller number."

Year 3 Maths: Measuring Length, Mass, Capacity and Area

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. Which unit would you use for the water in a bucket: cm, kg, L or g?

2. Put 3 kg, 500 g and 1 kg in order from lightest to heaviest.

3. What is the perimeter of a rectangle 5 m long and 2 m wide?

4. A rectangle is 5 squares long and 2 squares wide. What is its area?

5. What is the perimeter of a square with sides of 7 cm?

Spot the mistake

6. What is wrong? "The perimeter of a 6 cm by 4 cm rectangle is 6 + 4 = 10 cm."

7. What is wrong? "Start measuring from the very end of the ruler."

8. What is wrong? "900 g is heavier than 2 kg because 900 is bigger."

9. What is wrong? "Count only the squares around the edge to find the area."

Year 3 Maths: Turns, Telling the Time and How Long Things Take

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. How many quarter turns make a full turn?

2. The long hand points to 9. How many minutes past the hour is that?

3. Say 8:50 as minutes to the hour.

4. Kahu reads from 6:15 pm to 6:40 pm. How long does Kahu read?

5. Which is longer: 3 weeks or 20 days?

Spot the mistake

6. What is wrong? "7:40 is 40 to 8."

7. What is wrong? "Anticlockwise is the way the clock hands go."

8. What is wrong? "The long hand on 4 means 4 minutes past."

9. What is wrong? "A half turn and a full turn leave you facing the same way."

Year 3 Maths: Seconds to Centuries: How Units of Time Fit Together

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. How many hours are in a day?

2. How many minutes are in a quarter of an hour?

3. How many days are in a leap year?

4. How many years are in 2 centuries?

5. How many days are in 2 weeks?

Spot the mistake

6. What is wrong? "There are 100 seconds in a minute."

7. What is wrong? "A quarter of an hour is 25 minutes, like a quarter of 100."

8. What is wrong? "Every month has 30 days."

9. What is wrong? "A century is 10 years."

Year 3 Maths: Regular Shapes, Symmetry, Directions and Maps

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. How many sides does a regular hexagon have?

2. How many lines of symmetry does a square have?

3. You face north and make a quarter turn clockwise. Which way do you face now?

4. You face north and make a half turn. Which way do you face now?

5. On the school map, what is east of the hall?

Spot the mistake

6. What is wrong? "A rectangle is a regular polygon."

7. What is wrong? "Any line through a shape is a line of symmetry."

8. What is wrong? "My left is always your left."

9. What is wrong? "East is on the left of a map."

Year 3 Maths: Asking Questions and Collecting Data

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Practice

1. Which question gives number data?

2. Which question gives category data?

3. In the teeth table, how many students lost 2 teeth?

4. In the teeth table, how many students lost 3 or more teeth?

5. Eight students say how many pets they have: 1, 0, 2, 1, 1, 3, 0, 1. How many students have 1 pet?

Spot the mistake

6. What is wrong? "Favourite colour is number data."

7. What is wrong? "Number of pets is category data because pets are animals."

8. What is wrong? "Keep the answers in your head and count them later."

9. What is wrong? "Leave out the students who lost 0 teeth."

Year 3 Maths: Bar Graphs and Dot Plots: Reading the Story

Name: _____ Date: _____

Have a go first, then check the answers with a grown-up.

Your turn

Fruit	Students
Apple	5
Banana	7
Kiwifruit	9
Orange	3

1. Which fruit is the most popular?

2. Which fruit is the least popular?

3. How many students were asked?

4. How many more students chose kiwifruit than apple?

5. How many students chose banana or orange?

Spot the mistake

6. What is wrong? "The widest bar shows the most."

7. What is wrong? "A graph does not need a title."

8. What is wrong? "The teeth lost in total is the number of dots: 12."

9. What is wrong? "Leave a number off the dot plot if nobody chose it."

Answer key (for parents and tutors)

1. What is the 6 worth in 462?
   60
2. Write six hundred and four in numbers.
   604
3. Which is the biggest: 739, 793, 379 or 397?
   793
4. How many hundreds, tens and ones are in 850?
   8 hundreds, 5 tens, 0 ones
5. Put 506, 560 and 56 in order from smallest to largest.
   56, 506, 560
6. What is wrong? "In 352, the 5 is worth 5."
   The 5 is in the tens place, so it is worth 50.
7. What is wrong? "Three hundred and six is written 3006."
   It is written 306. The 0 holds the tens place.
8. What is wrong? "98 is bigger than 412 because 9 is bigger than 4."
   98 has no hundreds. 412 has 4 hundreds, so 412 is bigger.

Answer key (for parents and tutors)

1. There are 3 boxes of 100 pens, 5 packs of 10 pens and 8 single pens. How many pens is that?
   358
2. Round 76 to the nearest 10.
   80
3. Round 451 to the nearest 100.
   500
4. Round 349 to the nearest 100.
   300
5. Estimate 402 + 297 by rounding each number to the nearest 100.
   About 700 (400 + 300). The exact answer is 699.
6. What is wrong? "362 rounds to 300 because it starts with 3."
   Look at the tens digit. It is 6, so 362 rounds up to 400.
7. What is wrong? "45 rounds to 40."
   A 5 in the ones rounds up, so 45 rounds to 50.
8. What is wrong? "649 rounds to 700 because 9 is big."
   For the nearest 100, look at the tens digit. It is 4, so 649 rounds to 600.
9. What is wrong? "An estimate is a wild guess."
   An estimate uses rounded numbers, so it lands close to the real answer.

Answer key (for parents and tutors)

1. Which of these is even: 357, 471, 538 or 925?
   538
2. Count on in 4s: 12, 16, 20, __
   24
3. Count back in 5s: 45, 40, 35, __
   30
4. Which of these is in both the 2s count and the 5s count: 15, 25, 30 or 45?
   30
5. Count back in 100s: 864, 764, __
   664
6. What is wrong? "47 is even because 4 is even."
   Only the last digit counts. 47 ends in 7, so it is odd.
7. What is wrong? "Counting in 10s from 295, the next number is 296."
   Counting in 10s adds 10 each time: 295, 305, 315.
8. What is wrong? "Counting in 3s gives only odd numbers."
   It goes odd, even, odd, even: 3, 6, 9, 12.
9. What is wrong? "Counting back in 4s from 40: 40, 36, 34, 30."
   Take away 4 every time: 40, 36, 32, 28.

Answer key (for parents and tutors)

1. 45 + __ = 100
   55
2. 600 + 300
   900
3. 256 + 70
   326
4. 263 + 48
   311
5. A bus has 36 people on it. 18 get off and 25 get on. How many are on the bus now?
   43 (36 – 18 = 18, then 18 + 25 = 43)
6. What is wrong? "For 137 + 54, line up the 5 under the 1."
   Line up from the right: 4 under 7, and 5 under 3.
7. What is wrong? "In 352 – 128, do 8 – 2 = 6 because it is easier."
   Always take the bottom number from the top. Rename a ten so it is 12 – 8 = 4.
8. What is wrong? "34 + 76 = 100."
   34 + 66 = 100. Count on 6 to 40, then 60 to 100.
9. What is wrong? "After renaming, leave the extra ten out."
   Add the renamed ten into the tens column: 3 + 5 + 1 = 9.

Answer key (for parents and tutors)

1. 4 × 6
   24
2. 8 × 5
   40
3. 3 × 21
   63 (3 × 20 = 60, 3 × 1 = 3)
4. 32 ÷ 4
   8
5. 18 kiwifruit are shared equally between 3 lunchboxes. How many go in each lunchbox?
   6 (18 ÷ 3 = 6, because 3 × 6 = 18)
6. What is wrong? "4 × 3 means 4 + 3 = 7."
   4 × 3 means 4 groups of 3, which is 12.
7. What is wrong? "2 × 23 = 26, doing only 2 × 3."
   Multiply the tens too: 2 × 20 = 40, then 40 + 6 = 46.
8. What is wrong? "12 ÷ 0 = 0."
   You cannot share into zero groups, so 12 ÷ 0 has no answer.
9. What is wrong? "24 ÷ 3 = 21, by taking away 3 once."
   Dividing asks how many 3s make 24. 3 × 8 = 24, so the answer is 8.

Answer key (for parents and tutors)

1. A pizza is cut into 8 equal slices. What fraction is one slice?
   1/8
2. Which is the biggest: 1/5, 1/10, 1/3 or 1/8?
   1/3
3. What is 1/2 of 10 apples?
   5 apples
4. Count in thirds: 1/3, 2/3, __
   3/3, which is one whole
5. Put 1/2, 1/12 and 1/4 in order from smallest to largest.
   1/12, 1/4, 1/2
6. What is wrong? "1/8 is bigger than 1/4 because 8 is bigger than 4."
   Eighths are smaller pieces than quarters, so 1/8 is smaller than 1/4.
7. What is wrong? "A shape cut into 4 pieces of any size shows quarters."
   Quarters must be 4 equal parts.
8. What is wrong? "1/3 of 6 eggs is 3 eggs."
   Split 6 eggs into 3 equal groups. Each group has 2 eggs.
9. What is wrong? "4/4 is more than one whole."
   4/4 is all 4 quarters, which is exactly one whole.

Answer key (for parents and tutors)

1. Which is the biggest: 4/10, 7/10, 2/10 or 5/10?
   7/10
2. Put 5/6, 2/6 and 4/6 in order from smallest to largest.
   2/6, 4/6, 5/6
3. Which of these is one whole: 3/4, 5/5, 1/5 or 4/5?
   5/5
4. 1/2 = __/8
   4/8
5. Is 2/3 the same amount as 4/6?
   Yes, they are equal. Cut each third into 2 pieces and 2/3 becomes 4/6.
6. What is wrong? "2/4 is more than 1/2 because 2 is more than 1."
   2/4 and 1/2 are the same amount. The pieces are just smaller.
7. What is wrong? "4/4 is four wholes."
   4/4 is all 4 quarters, which is one whole.
8. What is wrong? "1/2 = 2/3 because the top is one less than the bottom in both."
   Draw them. 2/3 covers more than half, so they are not equal.
9. What is wrong? "To compare 5/8 and 3/8, look at the 8s."
   The 8s are the same, so compare the tops. 5 is more than 3.

Answer key (for parents and tutors)

1. 2/7 + 3/7
   5/7
2. 9/10 − 4/10
   5/10
3. What is 1/4 of 24?
   6 (24 ÷ 4 = 6)
4. 1/3 of the pencils in a tin is 8 pencils. How many pencils are in the whole tin?
   24 (3 × 8 = 24)
5. 1/8 + 2/8 + 4/8
   7/8
6. What is wrong? "1/8 + 2/8 = 3/16."
   Add the tops only. Eighths plus eighths are still eighths: 3/8.
7. What is wrong? "1/3 of 15 is 15 − 3 = 12."
   Find 1/3 by dividing: 15 ÷ 3 = 5.
8. What is wrong? "If 1/4 of a set is 3, the whole set is 3 + 4 = 7."
   There are 4 quarters, so the whole set is 4 × 3 = 12.
9. What is wrong? "5/6 − 2/6 = 3/0."
   Keep the bottom number: 5/6 − 2/6 = 3/6.

Answer key (for parents and tutors)

1. How many cents make $1?
   100
2. Which coins and notes make $17 with the fewest pieces?
   $10 + $5 + $2
3. A sandwich costs $6 and 50 cents and a juice costs $2. What is the total?
   $8 and 50 cents
4. You pay for a $14 toy with a $20 note. How much change do you get?
   $6
5. An ice cream costs $3 and 20 cents. You pay with a $5 note. How much change do you get?
   $1 and 80 cents
6. What is wrong? "$2 and 5 cents is the same as $2 and 50 cents."
   5 cents and 50 cents are different. 50 cents is ten times as much.
7. What is wrong? "$1 is 10 cents."
   $1 is 100 cents.
8. What is wrong? "The change from $10 for $6 and 50 cents is $4 and 50 cents."
   Count on: 50 cents to $7, then $3 to $10. The change is $3 and 50 cents.
9. What is wrong? "To make $35, use a $30 note."
   There is no $30 note. Use $20 + $10 + $5.

Answer key (for parents and tutors)

1. Which is true: 456 < 465, 456 > 465, 465 < 456 or 456 = 465?
   456 < 465
2. 350 − __ = 120
   230
3. Is 20 ÷ 4 = 2 + 3 true or false?
   True: 20 ÷ 4 = 5 and 2 + 3 = 5, so both sides are 5
4. What comes next: 6, 10, 14, 18, __
   22 (the rule is add 4)
5. 9 + 6 = __ + 10
   5 (both sides are 15)
6. What is wrong? "8 + 4 = __ + 7, so the missing number is 12."
   Both sides must be worth the same. 8 + 4 = 12 and 5 + 7 = 12, so it is 5.
7. What is wrong? "313 > 330 because 313 ends in a bigger digit."
   Compare the tens first. 1 ten is less than 3 tens, so 313 < 330.
8. What is wrong? "The next number in 2, 4, 6, 8 is 9."
   The rule is add 2, so the next number is 10.
9. What is wrong? "The < sign opens towards the smaller number."
   The open side faces the bigger number. The point faces the smaller one.

Answer key (for parents and tutors)

1. Which unit would you use for the water in a bucket: cm, kg, L or g?
   L
2. Put 3 kg, 500 g and 1 kg in order from lightest to heaviest.
   500 g, 1 kg, 3 kg
3. What is the perimeter of a rectangle 5 m long and 2 m wide?
   14 m (5 + 2 + 5 + 2)
4. A rectangle is 5 squares long and 2 squares wide. What is its area?
   10 squares (2 rows of 5)
5. What is the perimeter of a square with sides of 7 cm?
   28 cm (7 + 7 + 7 + 7)
6. What is wrong? "The perimeter of a 6 cm by 4 cm rectangle is 6 + 4 = 10 cm."
   A rectangle has four sides: 6 + 4 + 6 + 4 = 20 cm.
7. What is wrong? "Start measuring from the very end of the ruler."
   Start at the 0 mark, which is not always the very end.
8. What is wrong? "900 g is heavier than 2 kg because 900 is bigger."
   2 kg is 2,000 g, so 2 kg is heavier.
9. What is wrong? "Count only the squares around the edge to find the area."
   Area counts every square inside the shape.

Answer key (for parents and tutors)

1. How many quarter turns make a full turn?
   4
2. The long hand points to 9. How many minutes past the hour is that?
   45
3. Say 8:50 as minutes to the hour.
   10 to 9
4. Kahu reads from 6:15 pm to 6:40 pm. How long does Kahu read?
   25 minutes
5. Which is longer: 3 weeks or 20 days?
   3 weeks, because 3 weeks is 21 days
6. What is wrong? "7:40 is 40 to 8."
   7:40 is 20 to 8, because 40 + 20 = 60.
7. What is wrong? "Anticlockwise is the way the clock hands go."
   Clock hands go clockwise. Anticlockwise is the opposite way.
8. What is wrong? "The long hand on 4 means 4 minutes past."
   Each number is 5 minutes, so the 4 means 20 minutes past.
9. What is wrong? "A half turn and a full turn leave you facing the same way."
   A half turn makes you face the opposite way. A full turn brings you back.

Answer key (for parents and tutors)

1. How many hours are in a day?
   24
2. How many minutes are in a quarter of an hour?
   15
3. How many days are in a leap year?
   366
4. How many years are in 2 centuries?
   200 (100 + 100)
5. How many days are in 2 weeks?
   14 (7 + 7)
6. What is wrong? "There are 100 seconds in a minute."
   There are 60 seconds in a minute.
7. What is wrong? "A quarter of an hour is 25 minutes, like a quarter of 100."
   An hour is 60 minutes, so a quarter of an hour is 15 minutes.
8. What is wrong? "Every month has 30 days."
   Months have 28 to 31 days. February has 28, or 29 in a leap year.
9. What is wrong? "A century is 10 years."
   A decade is 10 years. A century is 100 years.

Answer key (for parents and tutors)

1. How many sides does a regular hexagon have?
   6
2. How many lines of symmetry does a square have?
   4
3. You face north and make a quarter turn clockwise. Which way do you face now?
   East
4. You face north and make a half turn. Which way do you face now?
   South
5. On the school map, what is east of the hall?
   The library
6. What is wrong? "A rectangle is a regular polygon."
   Its sides are not all the same length, so it is not regular.
7. What is wrong? "Any line through a shape is a line of symmetry."
   Only a line where both halves match exactly when folded.
8. What is wrong? "My left is always your left."
   Left and right depend on which way each person faces.
9. What is wrong? "East is on the left of a map."
   On most maps north is at the top, so east is on the right.

Answer key (for parents and tutors)

1. Which question gives number data?
   How many cousins do you have?
2. Which question gives category data?
   How do you get to school?
3. In the teeth table, how many students lost 2 teeth?
   5
4. In the teeth table, how many students lost 3 or more teeth?
   3 (2 students lost 3 teeth and 1 lost 4)
5. Eight students say how many pets they have: 1, 0, 2, 1, 1, 3, 0, 1. How many students have 1 pet?
   4
6. What is wrong? "Favourite colour is number data."
   Colours are words, so favourite colour is category data.
7. What is wrong? "Number of pets is category data because pets are animals."
   The answer is a count, like 0, 1 or 3, so it is number data.
8. What is wrong? "Keep the answers in your head and count them later."
   Write every answer down, then sort and count them.
9. What is wrong? "Leave out the students who lost 0 teeth."
   0 is an answer too. Count how many students lost 0 teeth.

Answer key (for parents and tutors)

1. Which fruit is the most popular?
   Kiwifruit
2. Which fruit is the least popular?
   Orange
3. How many students were asked?
   24 (5 + 7 + 9 + 3)
4. How many more students chose kiwifruit than apple?
   4 (9 − 5)
5. How many students chose banana or orange?
   10 (7 + 3)
6. What is wrong? "The widest bar shows the most."
   All the bars are the same width. The tallest bar shows the most.
7. What is wrong? "A graph does not need a title."
   Give a title and labels so readers know what the graph shows.
8. What is wrong? "The teeth lost in total is the number of dots: 12."
   12 is the number of students. Add up the teeth each one lost: 22.
9. What is wrong? "Leave a number off the dot plot if nobody chose it."
   Keep every number on the line, even with no dots, so the gaps show.