

Rapid Arithmetic

Set A

- When counting in steps of 10,000 from 32,600, will I reach 73,600? **No**

- Write 100, 500 and 1,000 in Roman numerals. **C, D, M**

3. $45,790 - 40,000 = 5,790$

- I saved half of £100, spent £37, then earned £12. I now have **£25**.

5. $4^2 + 5^2 = 41$

6. $\frac{17}{4} = 4 \frac{1}{4}$

Set B

- Count from 18,790 in 10,000s. How many steps until 58,790? **4**

- Answer in Roman numerals:
 $XXII + IX + XC = CXXI$

3. $16,491 - 2,200 = 14,291$

- I had £96.40, gave half to Dad and then £40 to Mum. I now have **£8.20**.

5. $6^2 + 7^2 = 85$

6. $\frac{40}{6} = 6 \frac{2}{3}$

Set C

- How many steps of 10,000 will exceed half a million from 397,891? **11**

- How many years passed between MCMXC and MMX? **20**

3. $27,890 - 26,120 = 1,770$

- I had £21.60, spent a quarter, then earned £46.50. I now have **£62.70**.

5. **square** Area = 81 cm^2
Perimeter = **36** cm

6. $2 \frac{2}{3} + 1 \frac{1}{6} = 3 \frac{23}{6}$

Rapid Arithmetic

Set A

1. Use $<$ or $>$ to compare:
 $450,054$ $450,504$
2. $631,125 - 425,013$
3. List all the factors of 24.
4. 24×100
5. $2,448 \div 6$
6. $\frac{2}{5} = \frac{\square}{15}$

Set B

1. List in ascending order:
 $417,679$, $417,976$, $417,967$
2. $429,173 - 57,642$
3. List all the common factors of 20 and 32.
4. $\times 100 = 540$
5. $2,481 \div 9$
6. $\frac{6}{8} = \frac{\square}{\square} = \frac{\square}{\square}$

Set C

- Write an even number
1. $>100,000$, $<400,000$, with a digit sum of 10.
 2. $108,904 - 59,668$
- Write two numbers <50
3. with exactly five common factors.
 4. 17.8×400
 5. 1,895 wheels are ordered to make tricycles. How many can be made?
 6. $\frac{4}{\square}$ is equivalent to $\frac{8}{\square}$

Rapid Arithmetic

Set A

1. Use < or > to compare:
 $450,054$ $\boxed{<}$ $450,504$
2. $631,125 - 425,013 = 206,112$
3. List all the factors of 24.
 $1, 2, 3, 4, 6, 8, 12, 24$
4. $24 \times 100 = 2,400$
5. $2,448 \div 6 = 408$
6. $\frac{2}{5} = \frac{\boxed{6}}{15}$

Set B

- List in ascending order:
1. $417,679, 417,976, 417,967$
 $417,679, 417,967, 417,976$
 2. $429,173 - 57,642 = 371,531$
- List all the common factors of 20 and 32.
3. $1, 2, 4$
 4. $\boxed{5.4} \times 100 = 540$
 5. $2,481 \div 9 = 275 \text{ r}6$
 6. $\frac{6}{8} = \frac{\boxed{3}}{\boxed{4}}^* = \frac{\boxed{12}}{\boxed{16}}^*$

Set C

- Write an even number >100,000, <400,000, with a digit sum of 10. $222,040^*$
1. $108,904 - 59,668 = 49,236$
- Write two numbers <50 with exactly five common factors. 16 and 48
2. $17.8 \times 400 = 7,120$
 3. $1,895$ wheels are ordered to make tricycles. How many can be made? 631
 4. $\frac{4}{\boxed{8}}$ is equivalent to $\frac{8}{\boxed{16}}^*$

*Various answers, one example given.

Rapid Arithmetic

Set A

1. 1 ten thousand, 9 thousands, 7 hundreds, 1 ten and 3 ones =

2. Is -1°C or -3°C warmer?

3. Round to the nearest 1,000 to estimate $47,341 + 21,687$

4. Which of these numbers are prime?
11 22 31 44

5. 223×6

6. Use $<$ or $>$ to compare:
 $\frac{4}{7}$ $\frac{3}{6}$ $\frac{2}{8}$

Set B

1. 20 thousands, 8 tens and 4 ones =

2. $-8, -5, \square, 1, \square, 7$

3. Round to the nearest 10,000 to estimate $65,195 + 14,846$

4. List all the prime numbers less than 100 with 4 tens.

5. A field is 45 m long and 128 m wide. What is the area of the field?

6. $\frac{3}{5} > \frac{1}{\square} > \frac{1}{6}$

Set C

1. 1 hundred less than 40,000, 1 ten and 8 ones =

2. I dive from 1 m above sea level to -18 m below. How far did I dive?

3. 89,500 is the estimated answer. How was rounding used? $51,497 + 38,039$

4. Find a composite number less than 50 with three prime factors.

5. $\div 324 = 21$

6. $\frac{6}{9} = \frac{8}{\square} > \frac{1}{\square} < \frac{4}{\square}$

Rapid Arithmetic

Set A

- 1 ten thousand, 9 thousands, 7 hundreds, 1 ten and 3 ones = **19,713**
- Is -1°C or -3°C warmer?
 -1°C
- Round to the nearest 1,000 to estimate $47,341 + 21,687$
 $47,000 + 22,000 = 69,000$
- Which of these numbers are prime?
11 22 31 44
- $223 \times 6 =$ **1,338**
- Use $<$ or $>$ to compare:
 $\frac{4}{7} \boxed{>} \frac{3}{6} \boxed{>} \frac{2}{8}$

Set B

- 20 thousands, 8 tens and 4 ones = **20,084**
- $-8, -5, \boxed{-2}, 1, \boxed{4}, 7$
- Round to the nearest 10,000 to estimate $65,195 + 14,846$
 $70,000 + 10,000 = 80,000$
- List all the prime numbers less than 100 with 4 tens. **41, 43, 47**
- A field is 45 m long and 128 m wide. What is the area of the field? **$5,760 \text{ m}^2$**
- $\frac{3}{5} > \frac{1}{\boxed{4}}^* > \frac{1}{6}$

Set C

- 1 hundred less than 40,000, 1 ten and 8 ones = **39,918**
- I dive from 1 m above sea level to -18 m below. How far did I dive? **19 m**
- 89,500 is the estimated answer. How was rounding used? $51,497 + 38,039$ **Nearest 100**
- Find a composite number less than 50 with three prime factors. **30***
- $\boxed{6,804} \div 324 = 21$
- $\frac{6}{9} = \frac{8}{\boxed{12}} > \frac{1}{\boxed{2}} < \frac{4}{\boxed{7}}^*$

*Various answers, one example given.