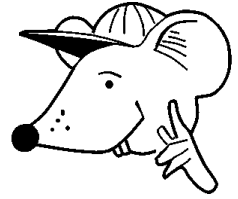


MATHEMATICS



N.S. Yr. 4 P.12

Round whole numbers to the nearest 10 or 100

Equipment

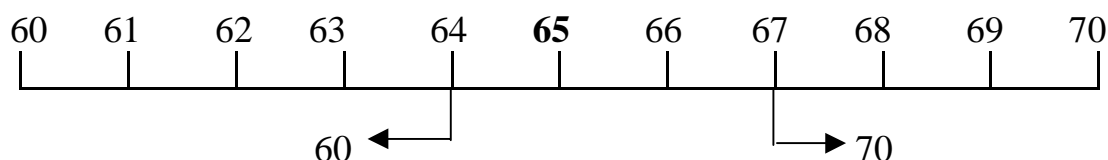
Paper, pencil

MathSphere

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Concepts

Numbers to the nearest 10:



When rounding to the nearest ten the key figure is the units digit. If the units are 5 or above, round up. If the units are below 5, round down.

Eg 67 rounds up to 70 to the nearest 10
64 rounds down to 60 to the nearest 10

(Note that although 65 is half way between 60 and 70, it is usual to round up to 70)

Numbers to the nearest 100

When rounding to the nearest 100 the key figure is the tens digit. If the tens digit is 5 or above, round up. If it is below 5, round down.

Eg 275 rounds up to 300 to the nearest 100
245 rounds down to 200 to the nearest 100

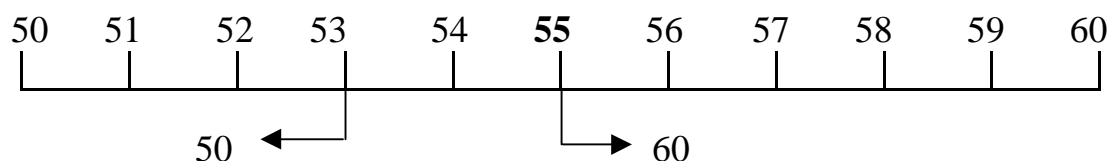
(Note that when rounding numbers to the nearest 100, it does not matter what the units digit is, it is the TENS digit that must be looked at.)

Be careful that when rounding, children do not write:

$$234 = 200$$

because 234 does not equal 200.

234 = 200 'to the nearest 100' should always be added, or it can be written: 234 → 200



Write these numbers to the nearest whole ten:

1. 47

2. 53

3. 84

4. 75

5. 29

6. 25

7. 32

8. 96

9. 124

10. 266

11. 255

12. 198

13. What is the nearest ten to 53 ?

14. What is the nearest ten to 225 ?

15. What is the nearest ten to 389 ?

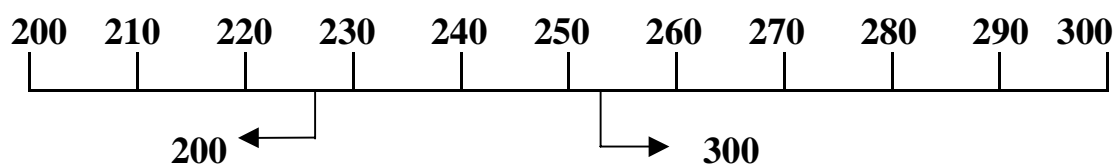
16. Round 76 to the nearest ten.

17. Round 257 to the nearest ten.

18. What whole ten is nearest to 218 ?

Look at the units when
deciding whether to
round up or down.





227 is 200 rounded to the nearest hundred.

253 is 300 rounded to the nearest hundred.

Write these numbers to the nearest whole hundred:

1. 286

2. 328

3. 922

4. 438

5. 119

6. 250

7. 455

8. 96

9. 105

10. 266

11. 465

12. 198

Look at the **tens** when
deciding whether to
round up or down.



13. What is the nearest hundred to 489 ?

14. What is the nearest hundred to 250 ?

15. What is the nearest hundred to 348 ?

16. Round 716 to the nearest hundred.

17. Round 155 to the nearest hundred.

18. What whole hundred is nearest to 350 ?

Rounding numbers

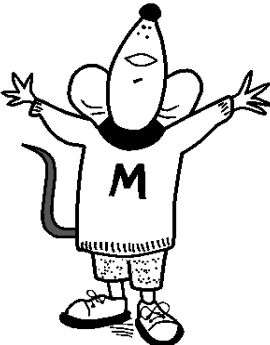
Round the lengths of these bridge spans to the nearest 10 metres:

New River Gorge bridge	518 metres
Humber estuary bridge	1 411 metres
Severn bridge	456 metres
Forth bridge	521 metres
Pont de Quebec bridge	549 metres

Write down the lengths of these birds' wingspans to the nearest 10 cms:

Barn Owl	86 cm
Peregrine Falcon	105 cm
Snowy Owl	153 cm
Kingfisher	25 cm
Golden Eagle	212 cm
Hummingbird	12 cm
Puffin	58 cm

I wish I could fly,
up high in the sky...



1. None of the rivers in the U.K. are particularly long, but round these off to the nearest 10 km:

Severn	354 km
Thames	346 km
Trent	298 km
Aire	259 km
Wye	217 km

2. Below is a list of some of the highest waterfalls in the UK. Round off their heights to the nearest 10 metres.

Eas Coul Aulin	201 metres
Falls of Glomach	113 metres
Pistyll y Lyn	91 metres
Falls of Clyde	62 metres
Caldron Snout	61 metres

3. Write down a number between 400 and 500 which is nearer to 500 than 400.

4. Write down a number between 700 and 800 which is nearer to 700 than 800.

Rounding to the nearest 10

1. Which of these is the best approximation for $609 + 298$?

- a. $610 + 290$ b. $700 + 300$ c. $600 + 300$ d. $610 + 300$

2. Which of these is the best approximation for $545 - 256$?

- a. $500 - 200$ b. $550 - 260$ c. $550 - 200$ d. $600 - 300$

3. Which of these is the best approximation for 22×47 ?

- a. 10×40 b. 20×50 c. 10×50 d. 20×40

4. Which of these is the best approximation for $154 \div 39$?

- a. $160 \div 40$ b. $150 \div 30$ c. $150 \div 40$ d. $160 \div 30$

5. Work out approximate answers to the following sums by rounding to the nearest ten:

a. $78 + 29$

b. $154 + 52$

c. $97 + 38$

d. $255 + 29$

e. $289 + 14$

Remember to look at
the units when
rounding to whole
tens!



6. What is 452 to the nearest whole ten?

7. What is 452 to the nearest whole one hundred?

Rounding to the nearest 10

1. Which of these is the best approximation for $452 + 197$?

- a.** $450 + 190$ **b.** $460 + 190$ **c.** $450 + 200$ **d.** $460 + 200$

2. Which of these is the best approximation for $192 - 79$?

- a.** $190 - 70$ **b.** $190 - 80$ **c.** $200 - 70$ **d.** $200 - 80$

3. Which of these is the best approximation for 19×44 ?

- a.** 10×40 **b.** 20×50 **c.** 10×50 **d.** 20×40

4. Which of these is the best approximation for $244 \div 29$?

- a.** $240 \div 30$ **b.** $240 \div 20$ **c.** $250 \div 20$ **d.** $250 \div 30$

5. Work out approximate answers to the following sums by rounding to the nearest ten:

a. $69 + 69$

b. $122 + 49$

c. $49 + 48$

d. $315 + 67$

e. $177 + 77$

I'm getting the hang of these now!



6. What is 489 to the nearest whole ten?

7. What is 606 to the nearest whole one hundred?

Write down approximate answers to the following, in the same way as the example, by rounding to the nearest ten:

Eg 18×23 is approximately $20 \times 20 \rightarrow 400$

1. 17×24 **2.** 39×21 **3.** 43×19 **4.** 98×12

5. $81 \div 16$ **6.** $106 \div 9$ **7.** $89 \div 32$ **8.** $44 \div 23$

Below is a table of distances between London and a number of other towns and cities, 'as the crow flies' - this means in a straight line.

Round off the distances to the nearest 10 km.

Let's see, 157 km at 75km per hour is only about two hours away - if I was a crow!



9. Hastings 88km

10. Weymouth 193 km

11. Liverpool 293 km

12. Poole 157 km

13. Plymouth 311 km

14. Birmingham 166 km

15. Manchester 271 km

Answers**Page 3**

1. 50 2. 50 3. 80 4. 80 5. 30 6. 30 7. 30 8. 100 9. 120
 10. 270 11. 260 12. 200 13. 50 14. 230 15. 390 16. 80 17. 260 18. 220

Page 4

1. 300 2. 300 3. 900 4. 400 5. 100 6. 300 7. 500 8. 100 9. 100
 10. 300 11. 500 12. 200 13. 500 14. 300 15. 300 16. 700 17. 200 18. 400

Page 5

New River 520m Humber 1 410m Severn 460m Forth 520m Pont de Quebec 550m
 Barn Owl 90 cm Peregrine Falcon 110cm Snowy Owl 150 cm
 Kingfisher 30 cm Golden Eagle 210 cm Hummingbird 10 cm Puffin 60 cm

Page 6

1. Severn 350 km Thames 350 km Trent 300 km Aire 260 km Wye 220 km
 2. Eas Coul Aulin 200m Falls of Glomach 110m Pistyll y Lyn 90 m
 Falls of Clyde 60m Caldron Snout 60 m
 3. any number from 450 to 499 4. any number from 701 and 749

Page 7

1. d. $610 + 300$ 2. b $550 - 260$ 3. b 20×50 4. $150 \div 40$
 5. a. 110 b. 200 c. 140 d. 290 e. 300
 6. 450 7. 500

Page 8

1. c. $450 + 200$ 2. b. $190 - 80$ 3. d. 20×40 4. a. $240 \div 30$
 5 a. 140 b. 170 c. 100 d. 390 e. 260
 6. 490 7. 600

Page 9

1. 400 2. 800 3. 800 4. 1 000 5. 4 6. 11 7. 3 8. 2
 9. 90 km 10. 190 km 11. 290 km 12. 160 km 13. 310 km 14. 170 km 15. 270 km