

Cross-Curricular Maths

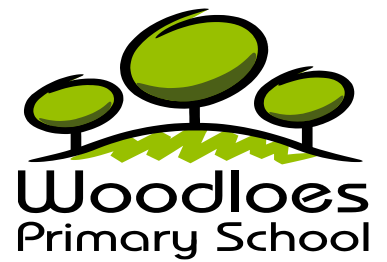
Session 1



This week's maths is cross curricular and linked to our new topic of Ancient Egypt.










Session 1



The Ancient Egyptian Number System

The Egyptian number system used symbols to represent numbers. There wasn't a symbol for every single number. Their number system looked like this:

	1	A simple notch, line or stroke
	10	Arch, or yoke
	100	Coil of rope
	1,000	Lotus flower
	10,000	Finger
	100,000	Tadpole or frog
	1,000,000	Egyptian God

They didn't have a symbol for the number 9, so if they wanted to write down the number 9, they wrote the symbol for number one 9 times. If they wanted to write down 40, they would write the symbol for 10 (the arch), four times.

It didn't matter what order they wrote the symbols in. In the number system we use today, 71 and 17, for example, are two different numbers, but in the Egyptian number system,

 and  both mean 112.

Egyptian maths task 1



Ancient Egyptian Numbers

Change the following numbers from English to ancient Egyptian symbols using the guide above. The first one is done for you:

1. $7 =$
2. $13 =$ 2
3. $223 =$ 2
4. $1025 =$ 2
5. $10,320 =$ 2
6. $200,103 =$ 2

We are now moving on to multiplication using the guide above. In the first set, multiply the two English numbers together and give your answer as an ancient Egyptian symbol. The first one is done for you:

7. $2 \times 4 = 8$
8. $10 \times 5 =$ 2
9. $5 \times 5 =$ 2
10. $7 \times 7 =$ 2
11. $700 \times 10 =$ 2
12. $2536 \times 10 =$ 2

In the second set, multiply the English number and the ancient Egyptian symbol together and give your answer in English (It may help to write the whole calculation in English first). The first one is done for you:

13. $10 \times$ $= 100$
14. $100 \times$ $= ?$
15. $7 \times$ $= ?$
16. $1000 \times$ $= ?$

There is a copy of the maths task I saved separately to make the questions clearer to read.

$$17, 7 \times \text{ankh} = ?$$

$$18, 3 \times \text{djed} = ?$$

Pharaoh Baines spilt a Nile milkshake on the sheet and lost his symbols! It is your job to work out the ancient Egyptian symbols that are missing (be careful as some questions are NOT multiplication). Write out the whole calculation including the missing Egyptian symbol. The first one survived and is done for you:

$$19, 10 \times \text{djed} = 1000$$

$$20, 33 \times \text{ankh} = 3300$$

$$21, 70 \times \text{ankh} = 490$$

$$22, 1000 \times \text{ankh} = 78,000$$

$$23, 47 \times \text{ankh} = 4700$$

$$24, 20 \times \text{ankh} = 140$$

$$25, 100 \div \text{ankh} = 10$$

$$26, 200 \div \text{ankh} = 2$$

$$27, 77 \div \text{ankh} = 7$$

$$28, 63 \div \text{ankh} = 9$$

$$29, 3090 \div \text{ankh} = 309$$

$$30, 840 \div \text{ankh} = 210$$

Pharaoh Baines wants you to record your answers for the following questions in BOTH English and ancient Egyptian symbols.

31. Jack and Sophie bought 58 Sphinx souvenirs each. How many did they have altogether?
32. There is room in a pyramid for 45 coffins on each of the 10 floors. How many coffins are there if the pyramid is full?
33. It takes 100 bricks to build one wall of a pyramid (each pyramid is a square based pyramid with 4 walls) - how many bricks will Pharaoh Bennett need to build TWO pyramids?
34. 20 pupils at Giza Primary School eat school dinners. On average, each pupil is given 7 chips. How many chips do the dinner ladies need to cook?
35. Pharaoh Baines bought 10 benches to go around both pyramids he built. Each bench cost £100 each. How much did Pharaoh Baines have to pay in total for his benches?

Have a go at writing your own questions involving the Ancient Egyptian number system.

Egyptian maths task 1 (ANSWERS)

Answers



Ancient Egyptian Numbers

Change the following numbers from English to ancient Egyptian symbols using the guide above. The first one is done for you:

1. $7 =$
2. $13 = ?$
3. $223 = ?$
4. $1025 = ?$
5. $10,320 = ?$
6. $200,103 = ?$

We are now moving on to multiplication using the guide above. In the first set, multiply the two English numbers together and give your answer as an ancient Egyptian symbol. The first one is done for you:

7. $2 \times 4 = 8$
8. $10 \times 5 = ?$
9. $5 \times 5 = ?$
10. $7 \times 7 = ?$
11. $700 \times 10 = ?$
12. $2536 \times 10 = ?$

In the second set, multiply the English number and the ancient Egyptian symbol together and give your answer in English (It may help to write the whole calculation in English first). The first one is done for you:

13. $10 \times$ $= 100$ $10 \times 10 = 100$
14. $100 \times$ $= ?$ $100 \times 15 = 1,500$
15. $7 \times$ $= ?$ $7 \times 20 = 140$
16. $1000 \times$ $= ?$ $1,000 \times 101 = 101,000$

$$17. 7 \times \text{} = ? \quad 7 \times 10,000 = 70,000$$

$$18. 3 \times \text{} = ? \quad 3 \times 1,000,000 = 3,000,000$$

Pharaoh Baines spilt a Nile milkshake on the sheet and lost his symbols! It is your job to work out the ancient Egyptian symbols that are missing (be careful as some questions are NOT multiplication). Write out the whole calculation including the missing Egyptian symbol. The first one survived and is done for you:

19. $10 \times$ $= 1000$
20. $33 \times ? = 3300$ $? = \text{> (100)}$
21. $70 \times ? = 490$ $? = \text{> (7)}$
22. $1000 \times ? = 78,000$ $? = \text{> (78)}$
23. $47 \times ? = 4700$ $? = \text{> (100)}$
24. $20 \times ? = 140$ $? = \text{> (7)}$
25. $100 \div ? = 10$ $? = \text{> (10)}$
26. $200 \div ? = 2$ $? = \text{> (100)}$
27. $77 \div ? = 7$ $? = \text{> (11)}$
28. $63 \div ? = 9$ $? = \text{> (7)}$
29. $3090 \div ? = 309$ $? = \text{> (10)}$
30. $840 \div ? = 210$ $? = \text{> (4)}$

Pharaoh Baines wants you to record your answers for the following questions in BOTH English and ancient Egyptian symbols.

31. Jack and Sophie bought 58 Sphinx souvenirs each. How many did they have altogether? $116 = \text{> (100)}$
32. There is room in a pyramid for 45 coffins on each of the 10 floors. How many coffins are there if the pyramid is full? $450 = \text{> (450)}$
33. It takes 100 bricks to build one wall of a pyramid - how many bricks will Pharaoh Bennett need to build TWO pyramids? $400 \times 2 = 800$ > (800)
34. 20 pupils at Giza Primary School eat school dinners. On average, each pupil is given 7 chips. How many chips do the dinner ladies need to cook? $140 = \text{> (140)}$
35. Pharaoh Baines bought 10 benches to go around both pyramids he built. Each bench cost £100 each. How much did Pharaoh Baines have to pay in total for his benches? $10 \times £100 = £1,000 = \text{> (1000)}$

It is a square based pyramid with 4 walls

There is a copy of the maths task 1 answers saved separately to make the answers clearer to read.