



WORDED PROBLEMS WHODUNNIT PUZZLES

INFORMATION SHEET



What are the **WORDED PROBLEMS WHODUNNIT PUZZLES**? They are a collection of 14 puzzles that help your child to solve worded problems. Set during the reign of the mighty Pharaoh Keveses in the realm of Ancient Egypt, they are colourful and cartoon-based to enthuse your child.

Vizier, we have found out some information about the suspects' journeys to the capital. Work out the answer to each question - each answer matches the number below the home town of one of the suspects. When you have finished there will be one city left. Cross out the suspect that comes from this city. Some of the food costs are:

pieces of meat - £7
loaves of bread - £8
baskets of fruit - £9
bags of vegetables - £6

When one suspect went shopping they had £25. They bought a bag of bananas for £5, then a large pumpkin for £8 and finally a watermelon for £3. How much money did they have left?

A suspect wanted to buy 3 baskets of fruit for the journey but they only had £20. How much more money did they need?

Two of the suspects need 20 casks of water for their journey altogether. One of them has 6 casks and the other has 9 casks. How many more casks do they need?

A suspect wanted to buy 4 pieces of meat for the trip to the capital. They had £30. How much change did they get?

Three suspects work out they are going to need a total of 40 camels for the journey. One suspect has 7 camels, the second suspect has 5 and the third one has 5. How many more camels do they need?

A criminal has £25. They want to buy a loaf of bread and a bag of vegetables for their trip. How much spare money do they have?

A suspect wanted to buy a bag of vegetables, a piece of meat and a loaf of bread for the trip to the capital. They had £30. How much change did they get?

P8 T2 L1

Tafista 12
Pomenep 21
Minhoti 11
Mahotep 9
Fipeses 16
Simenta 4
Hatshep 8

OH MIGHTY VIZIER, WE HAVE FOUND OUT SOME INFORMATION ABOUT THE SUSPECTS. ANSWER THE QUESTIONS AND IF THE ANSWER MATCHES THE NUMBER UNDER ANY OF THE SUSPECTS YOU CAN CROSS THEM OFF YOUR PAPYRUS.

Two of the suspects need a total of 20 men for a job. One suspect has 6 men and the other has 7. How many more men do they need?

Another of the suspects spends £21 altogether on identical vases. They buy 3. How much does one vase cost?

One gang of criminals starts with 20 members. 3 members become ill and have to stay in camp. Another 8 members get lost in a sandstorm. How many criminals are left?

Three of the suspects need a total of 20 camels to carry their treasure. One suspect has 5 camels, one has 8 and the final suspect has 3 camels. How many more camels do they need?

One criminal took 6 chests with them on a journey. Each chest contained 4 gold bars. How many gold bars did the criminal take altogether?

Four suspects need some chests to carry their gold in. One suspect has 5 chests, whilst the others have 4, 2 and 8 chests. They need 25 chests altogether. How many more chests do they need?

A gang set off on a trip with 25 chariots. 6 chariots lost wheels and couldn't continue. 5 had to stop because their drivers became ill and another 7 got lost and went in the wrong direction. How many chariots completed the trip?

P2 T1 L1

Each of the puzzles is made up of three tasks which your child has to complete to eliminate suspects who may have perpetrated a crime, such as the theft of the Sphinx's beard or the revealing of the whereabouts of King Tutankhamun's tomb.

Each of the tasks has four different levels, so no matter how confident your child is at calculations they will be able to answer the questions.

Each of the tasks has a definite answer, which you will know. This is fabulous for creating careful, independent learners... The child will want to find out who the guilty criminal is, but if they make a mistake you can tell them they are wrong and leave them to find their own mistake!

The fate of the Pyramids is in your hands Oh Mighty Vizier! We have found out some information about the suspects' gangs. Work out the answer to each problem and it should match one of the answers next to it. Use the code in brackets after the correct answer to find a letter in the grid to the left. Answer all of the questions and write the letters on the dotted line at the bottom of the page. When you have all of the letters, rearrange them to spell out the name of one of the suspects. Cross them off your papyrus.

A	I	Q
B	J	R
C	K	S
D	L	T
E	M	U
F	N	V
G	O	W
H	P	Y

1 2 3

Tefnepi decides that he wants to buy some new tents for his gang. He buys 7 tents from a tent shop in Qina, plus another 5 for the same price in Bahari. He pays with £80 and gets £8 in change. What is the cost of ONE tent?

Fipeses needs to get her gang to the pyramids. She purchases 3 new chariots and 6 new wagons. The cost of all of the new chariots is the same as the cost of all of the new wagons. If a wagon costs £8, how much does a chariot cost?

Hopetep bought 5 swords at a total cost of £40 for some of his gang members. He then bought another 4 swords and a chariot for a total of £41. What is the cost of 1 chariot?

Pomenep started the summer with 40 gang members. 9 left to join Hopetep's rival gang, 5 left after they got sick, and 7 got lost during a sandstorm in the Gharbiya Desert and were never seen again. How many people were in Pomenep's gang by the autumn?

Tefnepi and Tafata have decided to join forces. Tefnepi has 4 chests that each contain 7 gold pieces, whilst Tafata has 5 chests that each contain 8 gold pieces. How many gold pieces do Tefnepi and Tafata each have if they share the gold pieces equally between themselves?

When Fafafai's gang arrives at a camp site for the night there are 6 chariots that contain 4 ruffians and 7 wagons that contain 5 ruffians. Fafafai has tents that can hold 5 people. How many tents does he need to use to ensure everyone gets a good night's sleep?

Pastefai has £200 to pay her gang. She has 8 archers who she spends £4 on each, 5 swordsmen who she spends £5 on each and 6 horsemen who she spends £8 on each. How much money does she have left when she has paid her gang?

£5 (100) £6 (1000)
£18 (100) £16 (1000)
£9 (100) £7 (1000)
19 (100) 21 (1000)
33 (1000) 34 (1000)
12 (100) 11 (1000)
£109 (100) £107 (1000)

P9 T1 L1

The types of questions in the **WORDED PROBLEMS WHODUNNIT PUZZLES** have been meticulously researched to ensure that they match the challenges your child will face in their Key Stage Two SATs. The puzzles have all been written by an outstanding maths teacher with twenty years of experience teaching throughout Key Stage Two... And rigorously tested by his Year Six class who are desperate to be the first to solve the puzzles!

The puzzles are designed to systematically introduce new types of worded problems, ensuring that when your child eventually gets to the SATs they are ready to produce outstanding results in this key area of the curriculum. For a list of the types of worded problems, and when they are introduced, click on the document called “Types of Worded Problems” on the website.



Mighty Vizier, before the artefacts were stolen the suspects all made us less suspicious by visiting the temple. We have some information about their visits. Answer each of the questions and look at the answer next to it. If it is correct the person whose name is in brackets is not guilty and you can cross them off your papyrus.

Tanpesi visited the temple after an arduous journey from Thebes. She started out with 50 men, but lost many en route. 13 were taken sick after drinking from a fabled spring, 11 were bitten by mosquitoes and got malaria and another 17 were hospitalised with sun stroke. How many of Tanpesi's men made it to the temple?

9 (Tanpesi)

Two of the suspects wanted to treat their wives when they met them at the temple. Simeneta bought 4 horses that were worth £28 in total. Pomeneep bought 2 necklaces and 5 rings that were worth £47 in total. What is the cost of a necklace?

£8 (Pomeneep)

Safnepi, Mahotep and Minhotep travelled to the temple together. They stayed in the 'Stalking Scorpion' inn at Qiva, where they ran up a bill of £34. The next night they stayed at Anubis's premier hostelry, 'The Camel and Caravan' where the bill was £53. They shared the cost equally between them. How much did they each pay?

£27 (Safnepi)

Minhotep and Simeneta are very competitive! When they visited the temple they both brought to the priests that they had brought the most valuable offering. Simeneta was correct she brought 6 bags of gold, each of which is worth £8. Minhotep only brought 7 bags of silver, each of which is worth £7. How much more is Simeneta's gold worth?

£6 (Minhotep)

Pomeneep wanted to make an offering at the temple of £100. He brought with him 3 golden war spears worth £7 each, 5 bronze shields worth £6 each and 4 iron helmets worth £3 each. How much extra cash does he need to give the temple to reach his target of £100?

£15 (Tanpesi)

Hatshetep and Tanpesi visited the temple and brought an array of glittering offerings. Hatshetep brought 3 horses that altogether cost £18 whilst Tanpesi brought 4 amulets that altogether cost £16. How much more does a horse cost than an amulet?


£2 (Hatshetep)

Mahotep had a rather tricky journey from Hurgadha to the temple - he forgot to take his money with him! He had to ask his 7 guards to each lend him £9 for the expenses of the trip. How much did the entire trip cost?

£65 (Mahotep)

P12 T2 L1

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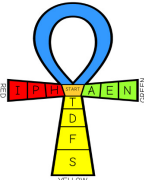


Oh Mighty Vizier! We have found out the name of a suspect who is definitely not guilty! Just crack the code hidden in this ankhs symbol and you can cross them off your papyrus...

To discover the innocent suspect's name, work out the answer to each question. Follow the code in brackets next to the correct answer.

For example, if the code says 'yellow 2', start in the centre space and move 2 places along the yellow part of the ankh. That would be a D.

Write this on the dotted line at the bottom of the page. Do this for all 7 questions. Rearrange all of the letters and you will discover the innocent suspect!




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challenging for children of that age. Puzzle 12, on the other hand, is designed for your child with the end of Year Six in mind; all of the question types are revised and the language and vocabulary has increased complexity - perfect for preparing your child for the most complex, three mark questions in the SATs papers, and the complex worded problems they will face in their GCSEs.

In short, the **WORDED PROBLEMS WHODUNNIT PUZZLES** are ideal if you want to ensure that your child actually enjoys learning how to solve worded problems and prepare for the SATs tests thoroughly with a smile on their face.



Mighty Vizier, I have some information that may help you. Answer the questions below. One of the numbers after the question should match your answer. The number in brackets next to it tells you how many places to move along the spiral. Each time you land on a letter on the spiral write it down on the dotted line at the bottom of the puzzle. Answer all seven questions, moving along the spiral from your previous letter. When you have all of the letters, rearrange them to spell out someone you can cross off your papyrus.

START → A W T R T D E R B A L P I S E R B A L O I U G O

H A I

P S S A G H P L A U B N E R B A L O I D E R B A H O

U I

I F O G H F A E R E S E D V U T S T G I T S E B N I G O

Fipases, Pasteti and Tafati have been invited to a party at Sapheti's house. They decide to buy Sapheti 9 pet leopards as a present and share the cost equally between themselves. The leopards cost £8 each. How much do Fipases, Pasteti and Tafati pay each?

£25 (13) £24 (12)

Fastapi and Tefnepi are rather competitive! They compare how many hunting hawks they each have. Fastapi has 5 cages that each contain 9 hunting hawks while Tefnepi has 6 cages that each contain 7 hunting hawks. How many more hunting hawks does Fastapi have than Tefnepi?

3 (15) 5 (6)

Tefnepi, Fastapi and Hapeti are preparing for an expedition to Anubis and need to collect enough water for the journey. Tefnepi has 9 buckets, Fastapi has 6 and Hapeti has 8 buckets. They want to take 40 buckets of water altogether on the expedition. How many more buckets do they need?

19 (14) 17 (13)

Tafati has been summoned to the capital to meet our glorious Pharaoh Kheops in person! She thinks that she will need 7 camels for the journey, which cost £4 each, plus £9 each day for food. The journey is expected to take 7 days. Tafati only has £50. How much more money does she need?

£43 (9) £41 (6)

Tefnepi's collection of brooches is looking a bit depleted so she decides to buy some more. She goes to the local jewellery store and buys 4 identical brooches. She pays the shopkeeper with £30. He gives Tefnepi £6 in change. What is the cost of ONE brooch?

£6 (12) £5 (13)

Sapheti decides to treat Fipases to some new jewellery to celebrate her 30th birthday. Sapheti visits a diamond specialist and buys 4 diamond rings. The next day she returns and buys 6 beautiful lapis lazuli pendants that cost £8 each. By coincidence, a diamond ring cost exactly the same as a lapis lazuli pendant. What is the cost of ONE diamond ring?

£12 (14) £11 (16)

Fipases returns the compliment when it is Sapheti's birthday. Fipases visits a high-class jeweller in Qiva. She buys her friend 2 opal encrusted rings that cost £6 each, 4 lapis pendants that cost £8 each and 3 more studied silver rings that cost £7 each. She pays with £200. How much change does she get?

£35 (9) £36 (7)

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